


# NAGARJUNA GOVT. COLLEGE (A)


## IIT BOMBAY SPOKEN TUTORIAL

### ACADEMIC YEAR: 2021-22


**Organized by**




**NODAL**  
**TELANGANA SKILLS & KNOWLEDGE CENTRE**  
TS KC  
Telangana Skills & Knowledge Centre




**CREATING OPPORTUNITIES**




**DEVELOPING SKILLS**



**SUCCESS**




**UNLEASHING POTENTIAL**



**NAGARJUNA GOVERNMENT COLLEGE (A)**

Re-Accredited by NAAC with 'A' Grade  
Affiliated to Mahatma Gandhi University



**NALGONDA**

THE  
**C**  
PROGRAMMING  
LANGUAGE



**CERTIFICATE**  
**COURSE**



## Section 1

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## Section 6

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**NAGARJUNA GOVT. COLLEGE (A) NALGONDA**  
**TELANGANA SKILLS & KNOWLEDGE CENTRE**

# **C and CPP Certificate Course**

**in collaboration with**

**IIT Bombay Spoken Tutorial**

**\*\*\***

## **Report:**

Telangana Skill & Knowledge Centre (TSKC) conducted a certificate course on C and CPP from 01-03-2022. In this course 127 students from MPCs, BCOM CA and BZCS were enrolled and successfully completed their course.

## **Course outcome:**

After completion of course student easily writes the program in C and C++ and they know difference between procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects. Understand dynamic memory management techniques using pointers, constructors, destructors, function overloading, operator overloading, virtual functions and polymorphism. These course are the fundamental course for any Computer Science background students, which helpful to get job in IT field

# NAGARJUNA GOVT. COLLEGE (A) NALGONDA TELANGANA SKILL & KNOWLEDGE CENTRE

Date: 23-02-2022


## NOTICE

All the B.Sc, B.Com & B.A students are hereby informed that, who are not registered in the IIT Bombay Spoken Tutorial, register immediately by scanning the QR Code



Note:

1. It is a free of cost & remote learning training
2. After completion of course you will get a certificate from IIT Bombay Spoken Tutorial
3. Course will be allotted and intimate on 28-02-2022
4. Already registered student no need to register again

  
TSKC Co-Ordinator (Nodal)  
N.G. College (A), NALGONDA

**NAGARJUNA GOVT. COLLEGE(A) NALGONDA****TELANGANA SKILL & KNOWLEDGE CENTRE****IIT BOMBAY SPOKEN TUTORIAL****C and CPP- Certificate Course-Student Enrollment**

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**NAGARJUNA GOVT. COLLEGE(A) NALGONDA****TELANGANA SKILL & KNOWLEDGE CENTRE****IIT BOMBAY SPOKEN TUTORIAL****C and CPP- Certificate Course-Student Enrollment**

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# NAGARJUNA GOVT. COLLEGE (A) NALGONDA TELANGANA SKILL & KNOWLEDGE CENTRE


Date: 28-02-2022

## NOTICE

All the below mentioned groups of IIT Bombay Spoken Tutorial registered students hereby informed that, TSKC allotted your course for the Academic year 2021-22 shown below. In this regard instructed that complete your course before 31-03-2022.

Sl.No	Group	Year	Course Alloted	Duration
1	BCOM CA	III	C and Cpp	1 Month
2	BZCS	III		
3	MPCS	II		
4	BZC	III	Jmol Application	
5	MPC	III		
6	BBC	III		
7	MZC	III		
8	MBC	III		
9	BTZC	III		
10	MSCS	III	R	
11	MPG	III	Scilab	

Note: Any doubts contact @ TSKC Lab, NG College(A) Nalgonda

  
TSKC Co-Ordinator (Nodal)  
N.G. College (A), NALGONDA



## 1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :  
<https://spoken-tutorial.org/tutorial-search/>
2. You can also download the Spoken Tutorials for offline learning from :  
<https://spoken-tutorial.org/cdcontent/>
3. From this link download the FOSS categories in the language you wish to learn.
4. The Spoken Tutorial content will be downloaded as a zip file on your machine.
5. Extract the contents of the zip file & access them.

## 2 The procedure to practise

1. You have been given a set of spoken tutorials and files.
2. You will typically do one tutorial at a time.
3. You may listen to a spoken tutorial and reproduce all the commands shown in the video, as explained in the "Side-by-Side learning" video.
4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

## 3 C and C++

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "C-and-CPP".
2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.
3. Click on "Submit" button.
4. You will see a list of tutorials based on your selection.
5. Start with the first tutorial in the displayed list.

## 4 First tutorial: First C Program

1. Locate the topic "First C Program" and click on it.
2. To view the tutorial, click on the Play icon which is located in the player.
3. The **Pre-requisite** will be visible below the player (only for Online contents).
4. **Outline, Assignments, Code Files and Slides** are available below the player.
5. Adjust the size of the browser in such a way that you are able to practise in parallel.

### 4.1 Instructions to practise on Linux OS

#### I) How to learn from the tutorials

- (a) The tutorials are explained on the Linux OS.
- (b) It will be easy for Linux users to follow, as instructed in the tutorial.

#### II) Gedit Text Editor

- (a) The commands are typed in `gedit` Text Editor on the Linux OS.
- (b) The version of `gedit` that you are using will be different from the version used in the tutorials. Hence, it is expected to see some differences between the tutorial and the actual `gedit` interface that you will be using.

### 4.2 Instructions to practise on Windows OS

#### I) How to use Command Prompt

- (a) At 0:55 mins, pause the video.
- (b) Here the video shows how to open the "Terminal" in Linux OS.
- (c) On Windows, one has to use "Command Prompt".
- (d) To open the "Command Prompt" on Windows, press the "Windows" key and "R" key simultaneously on your keyboard. It will open the "Run" prompt.

- (e) At the prompt, type "cmd" and click on "Ok".
- (f) This will open the "Command Prompt".
- (g) Now resume the video.

## II) How to use Notepad++

- (a) At 1:10, pause the video.
- (b) Here the video shows how to open "gedit" text editor in Linux OS.
- (c) On Windows, one has to use "Notepad++" text editor.
- (d) Notepad++ can be opened from `Start >> Applications >> Notepad++`.
- (e) Type the program code as shown in the tutorial in "Notepad++" text editor.
- (f) Now resume the video.

## III) How to compile and execute

- (a) At 6:50, pause the video.
- (b) Here the video shows how to execute the program in Linux OS.
- (c) To run the program after compilation in Windows OS, type `myoutput.exe` instead of `./myoutput`

## 4.3 Common instructions for Assignments

- (a) At the prompt, type `cd Desktop/` and press "Enter".
- (b) Now type `mkdir name-rollno-c-cpp` and press "Enter".  
(Eg. `mkdir Ashwini-1-c-cpp`)
- (c) This will create a folder with your "name" and "rollno" on the Desktop.
- (d) Type `cd name-rollno-C++` and press "Enter".  
(Eg. `cd Ashwini-1-c-cpp`)
- (e) This will take you to that particular folder.
- (f) Give a unique name to the files you save in your folder, so as to recognize it next time.  
(Eg. "Practice-01-c")
- (g) Remember to save all your work in your directory.
- (h) This will ensure that your files don't get over-written by someone else.
- (i) Remember to save your work from time to time, instead of saving it at the end of the task.

- (j) Attempt the Assignments as instructed in the tutorial.
- (k) Save your work in your folder.

## 4.4 Common instructions to use Code files

- (a) Click on the link "Code files" located below the player and save it in your folder.
- (b) Extract the downloaded zip file.
- (c) You will see all the code/source files used in the particular tutorial.
- (d) Remember to change the path to this directory after opening the terminal.
- (e) Then use these files as per the instructions given in the particular tutorial.

- 6. Play-pause-practise the whole tutorial.
- 7. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.
- 8. Follow all the above instructions, till you complete all the tutorials in the series.

## 5 Eighth tutorial: Increment and Decrement Operators

- 1. At 7:57 `printf` statement shows `printf("Value of c is %f/n", c)`
- 2. It should be read & typed as `printf("Value of c is %.2f/n", c)`
- 3. This is shown at time 8:15

## 6 Twelfth tutorial: Loops

- 1. At 9:33, A code is executed which goes into an infinite loop.
- 2. To terminate the loop, press `Ctrl + C` keys simultaneously on the keyboard.

## 7 Twentieth tutorial: File handling in C

- 1. At 2:20 & 4:19, the path to store `sample.txt` file is mentioned.
- 2. If typed as given, this path will give you an error on your machine.
- 3. Instead of the path shown in the video, choose the path as per the directories in your system.



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A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **ETTAMALLA. RAKESH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **GURIJA HARI KRISHNA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **AJAY MAREPALLY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **SAI RUSHIKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MUKKOJU SHEKAR SHEKAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NEELAKANTAM VARSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **THIRUMANI POOJA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **DURGAPRASAD VADDE** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **VATTIPALLY USHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SAGARIKA AMGOTHU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **ARSHIYA NAAZ** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **AVULA NARESH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **GANGULA THARUN KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PANASAM AKANKSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **BANDARU KUSUMA KUMARI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **BOBBALA KRISHNA KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KUKKALA VENNELA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MALOTHU AJAY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **SHIVA KUMAR MANDALA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MANNEM VIJAY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NARESH MANYAM** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MASAMPALLY SHIVA KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **MOHAMMAD AYYUB** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **MUKKOJU SHEKAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **N PREM KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **NARAYANADASU KALYANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **NEELA SHIRISHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **NUNNAGUPULA RADHIKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **NUTHI VISHWATEJA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

A handwritten signature in black ink, appearing to read 'Kannan Moudgalya'.

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# Certificate of Participation

This is to certify that **GIRI PAKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **PALADUGU KRANTHI KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **SHIVA PALLA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **VIJAY SIMHA REDDY PITTA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **POLAM SAIKUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **P THARUN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **RAMAVATH HANUMANTHU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

A handwritten signature in black ink, appearing to read 'Kannan Moudgalya'.

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# Certificate of Participation

This is to certify that **RAVVA GANESH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **S NETHAJI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **SHAIK DILSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **SHAIK PASHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **THORUPUNURI ARUN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **U MANASA MAMMU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **VELDANDA VINAY KUMAR REDDY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **YEDURU SRINU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **BANDARU KUSUMA KUMARI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **SHIVAJI BANDARU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **BODHASU SHIREESHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **BODIGA NAVEEN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **BOMMU ANUSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **BRAHMADEVARA THARUN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **DASARI SRIKANTH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **GADANABOINA SURESH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **GADDHAPATI MAHESHWARI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **JANTHIKA AKHILA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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IIT Bombay



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# Certificate of Participation

This is to certify that **KOLLA ADITHYA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **KOMPALLY NAVYA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **KOTTE ANIL YADHAV** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **MARLA NAGARJUN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **MASINA PAWAN REDDY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **MURAGANI SRIKANTH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **NALAPARAJU NAGARAJU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **NARABOINA NARASIMHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **NAGARAJU NARAGONI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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# Certificate of Participation

This is to certify that **NARAYANADASU MADHU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **PARSHANABOINA SRIKANTH MUDIRAJ** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **POLEPALLY PRAVEEN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **RACHAKONDA TEJA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **RAMAVATH DIVYA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **THOTAKURI TEJA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **UPENDAR VADLAKONDA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

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# Certificate of Participation

This is to certify that **VARTHYA RADHIKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **MASINA ARAVIND REDDY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **MD AFREEN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **BODA NAGA CHANDU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **MADHURI KANCHANAPALLY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **NELAPATLA SRILATHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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# Certificate of Participation

This is to certify that **PAGILLA VIJAYA GOUTHAMI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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# Certificate of Participation

This is to certify that **RAKESH DASARI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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IIT Bombay



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# Certificate of Participation

This is to certify that **SUCHARITHA DHARAVAT** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **NEELA MALLIKARJUN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **GURIJALA CHANDRA PRAKASH** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **PALVELLI VINITHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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# Certificate of Participation

This is to certify that **RAVULA SANTHOSH KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

March 2nd 2022

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IIT Bombay



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# Certificate of Participation

This is to certify that **CHILUVERU HANUMANTHU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

**Prof. Kannan M Moudgalya**  
IIT Bombay



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# Certificate of Participation

This is to certify that **DANIEL VIJAY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **JHANSI DHUBBA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **DOTI ANUSHA DOTI ANUSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **JUVVI SHIVA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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IIT Bombay



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# Certificate of Participation

This is to certify that **KATTEKOLA SAI KIRAN** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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IIT Bombay



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# Certificate of Participation

This is to certify that **SINDHU KOMMAGANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **YASHWANTH SAI MANCHIKANTI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **NADDI PRANITHA N PRANITHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **NUNSAVATH ASHOK ASHOK** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **VARIKUPPALA CHANDANA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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# Certificate of Participation

This is to certify that **POLA UMESH CHANDRA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

August 30th 2021

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