



THE  
**C**  
PROGRAMMING  
LANGUAGE



**CERTIFICATE**  
**COURSE**



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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 15-01-2021. In this course 96 students from BZCA, MPCS, MSCS 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 SKILLS & KNOWLEDGE CENTRE

Date: 03-01-2021


## NOTICE

All the B.Sc, B.Com & B.A students are hereby informed that, TSKC begins IIT Bombay Spoken tutorial registration from 03-01-2021 for the Academic Year 2020-21. Last date for registration is 09-01-2021. Interested students should register in IIT Bombay Spoken Tutorial by scanning the QR Code or by clicking the link which was sent in Telegram Group.



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 will intimate on 12-01-2021
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-Student Enrollment**

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

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


Date: 13-01-2021

## NOTICE

All the below mentioned groups of IIT Bombay Spoken Tutorial registered students are hereby informed that, TSKC allotted your course for the Academic year 2020-21 shown below. In this regard instructed that completed your course before 28-02-2021.

Sl.No	Group	Year	Software Course
1	MPCS	III Year	Python - Python 3.4.3
2	MSCS	III Year	
3	BCOM	III Year	Accounting and Finance - FrontAccounting-2.4.7
4	BZCA	III Year	C and Cpp
5	MPCS	II Year	
6	MSCS	II Year	
7	MCIC	III Year	GeoGebra 5.04
8	MPC	III Year	LibreOffice Suite Calc
9	MPG	III Year	
10	BBC	III Year	
11	BA	III Year	LibreOffice Suite Impress
12	BCOM General	III Year	LibreOffice Suite Writer
13	BCOM	II Year	

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.





Spoken Tutorial  
Project at  
IIT Bombay

# Certificate of Participation

This is to certify that **KANDULA MADHULATHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

**Prof. Kannan M Moudgalya**  
IIT Bombay



Spoken Tutorial  
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IIT Bombay

# Certificate of Participation

This is to certify that **AKHILA PUNNA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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

March 2nd 2021

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

March 2nd 2021

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

March 2nd 2021

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IIT Bombay





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# Certificate of Participation

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

March 2nd 2021

**Prof. Kannan M Moudgalya**  
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# Certificate of Participation

This is to certify that **GADDALA SANATH KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

**Prof. Kannan M Moudgalya**  
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# Certificate of Participation

This is to certify that **GADDAPATI SWETHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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IIT Bombay



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# Certificate of Participation

This is to certify that **GADHE SATHISH KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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# Certificate of Participation

This is to certify that **GUDELLI VEANU MADHAU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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# Certificate of Participation

This is to certify that **MEDI SANDEEP KUMAR** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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# Certificate of Participation

This is to certify that **PANUGOTHU VENNELA VENNELA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **RAPOLU HEMA LATHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **ABBAGANI DIVYA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **ALIMINETI ASHWINI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **AMBALLA KARTHIK** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **ANKATHI SHIVASAI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **ASMATH SUMMAYYA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **BALEM PRASANNA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **BELLAMKONDA RESHMA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **BODANAPU MANEESHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **BOLLAM SRUTHI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **BOLLEDDU PAVANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **CHILAKALA ANITHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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

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# Certificate of Participation

This is to certify that **CHIRAGONI MAMATHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **RAMANA CHITTIMALLA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **DANDA MANASA REDDY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **DEPA SANDEEPREDDY** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **GADDAM VAISHNAVI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **GILLOJU HARIKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **NAGARAJU GIRAGANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **GOTTETI SHANKAR YADAV** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **JAKKALI MANASA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **SADVIKA KARNATI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KATAM SANTHOSHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KOLLU SHIVANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KONDA SHIVASHANKAR GOUD** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KONDA YASHASWINI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KOTHOJU RAJINI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **MANGA HARIKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **MARAGONI KALYANI KALYANI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **MERUGU PRIYANKA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **MOHAMMED MUJAHED** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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

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# Certificate of Participation

This is to certify that **MOPURI MAHESHWARI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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# Certificate of Participation

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

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# Certificate of Participation

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# Certificate of Participation

This is to certify that **POTTABATNI KRISHNASREE** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **PULLURU KRUTHIK** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **RAGULA VIJETHHA** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **KAVERI RAJAVARAPU** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

This is to certify that **SRILAKSHMI RAPARTHI** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

This is to certify that **SHAIK ABDUL BASID** participated in the **C and Cpp** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 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.

March 2nd 2021

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

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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# Certificate of Participation

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

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

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

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# Certificate of Participation

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

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