KCES's College of Engineering and Management, Jalgaon

Activity Report

Name of The Activity : Student Development Program on C and CPP			
Category of activity	**Curricular**	**Co-curricular**	**Extra-curricular**
Date:	05/04/2021 to 09/04/2021	**Participants profile:**	FE Students
Name of Co-ordinator (S)	1.Mr. Shripad M. Jambhaikar		
Guest/ Experts (If any)	**By Spoken Tutorials IIT Bombay.**		
Objective for conducting activity	➢ Students should be aware of Programming Languages.		
Methodology	➢ Online Session was conducted with help of video lectures by Spoken tutorial IIT Bombay.		
Out Come	➢ Students become aware of Object Oriented Programming.		

IQAC Coordinator

Principal

Date: 10/03/2021

To,
Prof.K.B.Patil
H.O.D,
Basic Science Department
KCES's COEM Jalgaon

Subject : Regarding Student Development Program scheduled on Computer Programming C and CPP from 05/04/2021 to 09/04/2021.

Dear Sir,

As per the A. Y. 2020-21 Training planner of Basic Science department, Student Development Program scheduled on Computer Programming C and CPP from 05/04/2021 to 09/04/2021 so for making necessary arrangement provide following details.

Sr. No	Details
1	Name of Coordinator(Other than Spoken Tutorial Coordinator)
2	Name of Invigilator
3	Date of Examination

Thanking You.

Yours,

Prof. Avinash Y. Surywanshi
Coordinator Spoken Tutorial
KCES's COEM Jalgaon

Date: 15/03/2021

To,
Prof. A. Y. Surywanshi
Coordinator Spoken Tutorial
KCES's COEM Jalgaon

Subject : Regarding Student Development Program scheduled on Computer Programming C and CPP from 05/04/2021 to 09/04/2021.

Dear Sir,

As per the your letter for making necessary arrangement of the Student Development Program scheduled on Computer Programming C and CPP from 05/04/2021 to 09/04/2021

Required details as follow.

Sr. No	Details	
1.	Name of Coordinator for SDP/FDP(Other than Spoken Tutorial Coordinator)	Prof. S.M.Jambhaikar
2	Name of Invigilator	Prof. P.V.Naval
3	Date of Examination	19 April 2021

Thanking You.

Yours,

Prof. K.B.Patil
H.O.D Basic Science Dept.
KCES's COEM Jalgaon

K.C.E. SOCIETY'S

COLLEGE OF ENGINEERING & MANAGEMENT, JALGAON – 425001

Basic Science Department

Academic Year 2020-21 SEM – I

DATE: 26/03/2021

Important Notice

All the students are hereby inform that one week online student development program is arranged by the Basic Science department in association with Spoken tutorial IIT Bombay on **Computer Programming C and CPP** from 05/04/2021 to 09/04/2021, so it is compulsory to all the students to attend program. For any query contact Mr. Shripad M. Jambhaikar , spoken tutorial coordinator .

HOD

Mr.K.B.Patil

The Spoken Tutorial Project

- *Self-explanatory*: uses simple language
- *Audio-video*: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new **FLOSS** (**F**ree/**L**ibre and **O**pen **S**ource **S**oftware)

Target Group

- Students- High School and College
- Working professional- Software users, developers and trainers
- Research scholars
- Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on C and C++ and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.
For more details, please visit
https://spoken-tutorial.org

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.
For more details, please visit
https://forums.spoken-tutorial.org.

The Spoken Tutorial Project
is funded by the
National Mission on Education through
Information and Communication Technology,
Ministry of Human Resource Development,
Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: https://spoken-tutorial.org

Forum help available to all learners

Content available in 22 Indian languages

IIT Bombay

Spoken Tutorial
https://spoken-tutorial.org

Scan the QR code to
visit Spoken Tutorial website

THE C PROGRAMMING LANGUAGE

C++

National Mission on Education through
Information and Communication Technology
(NMEICT)
www.sakshat.ac.in

Funded by MHRD, Government of India.

About C

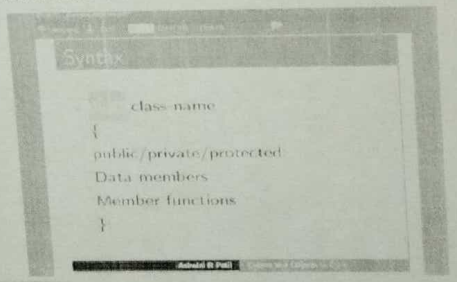
C is a general-purpose programming language, nitially developed by Dennis Ritchie between 969 and 1973 at Bell Labs. Its design provides onstructs that map efficiently to typical nachine instructions. C is one of the most idely used programming language and there re very few computer architectures for which a compiler does not exist.

Features

- C has facilities for structured programming and allows lexical variable scope and recursion.
- All executable code is contained within subroutines, called "functions."
- C program source text is free-format, using the semicolon as a statement terminator and curly braces for grouping blocks of statements.
- Typing is static, but weakly enforced: all data has a type, but implicit conversions can be performed; for instance, characters can be used as integers.
- Complex functionality such as I/O, string manipulation, and mathematical functions are easy to implement with library routines.

About C++

- C++ is a statically typed, free-form, compiled, general-purpose programming language. It was developed by Bjarne Stroustrup starting in 1979, at Bell Labs.
- It adds object-oriented features such as classes, and other enhancements to the C programming language.
- The language began as enhancements to C, first adding classes, then virtual functions, operator overloading, multiple inheritances, templates, and exception handling among other features.
- C++ is also one of the most popular programming languages and can be implemented on most hardware and OS platforms.
- As an efficient compiler to native code, its application domains include:
- Systems software
- Application software
- Device drivers
- Embedded software
- High-performance server and client applications
- Entertainment software like video games



Features

- Classes: By using classes, we can create user-defined data types. A class is the collection of a set of data and code. An object is the instance of a class.
- Inheritance: Allows one data type to acquire properties of other data types. This provides the idea of reusability, that means we can add new features to an existing class without
- Data Abstraction and Encapsulation: Encapsulation means hiding data from the data structures. Here, the data is accessible to only the functions that are allowed to access it. Abstraction means representing essential features without including background details.
- Polymorphism: means one interface can be used for multiple implementations, so that object can behave differently for each implementation.
- Dynamic Binding: At runtime, the code matching the object under the current reference will be called.

C and C++ Advantages

- Powerful and flexible: C/C++ are used for developing operating systems, compilers, parsers, interpreters, word processors, search engines and graphic programs.
- Support: C requires less runtime support
- Portable programming language: A variety of C/C++programm written for one computer system can be compiled and run on another system, with little or no change.
- Modular: Written in routines called functions and classes (C++), programs can be used in other applications or programs.
- Preferred by professional programmers: A variety of C/C++ resources and helpful supports are widely available.
- Standardised: Many standards have been documented, maintained and updated for C and C++ as standard references.

Instruction Sheet for C and C++

Spoken Tutorial Team
IIT Bombay

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.

INSTRUCTION FOR INVIGILATOR

Procedure to be followed by the Invigilator for conducting Online Test

Step 1: Register as an Invigilator :

1. First of all you will need to get a Username registered for yourself on the Spoken Tutorial website.
2. To do so, go to http://spoken-tutorial.org/accounts/register/ This will take you directly to the registration page.
3. Fill in the details, your Username, Email-ID, password (should be minimum 8 character long) for your account and type the caption which appears in the box. Click on Register.
   (To know more about Registration : http://process.spoken-tutorial.org/images/5/5d/Create-New-Account.pdf)
4. Now, login using your registered Username and Password.
5. Click on 'Software Training' link present in the header part of the screen, then select "Training Dashboard ".
6. It will show two options namely "Add me as Organiser" and "Add me as Invigilator". Click on "Add me as Invigilator".
7. The Training Manager from the Spoken Tutorial team, IIT Bombay, will authenticate you as an Invigilator.

NOTE:

- Even if you already have an "Organizer" account, you can get registered as an "Invigilator". But the same person CANNOT be an Organizer and Invigilator for the same "Test".

Step 2: Approving the Test Request :

1. As soon as the Organiser requests for the "Test", the Training Manager (from Spoken Tutorial Team, IIT Bombay) will approve the request, followed by the Invigilator.
2. For approving the "Test", login with your (Invigilator) Username and Pasword on http://spoken-tutorial.org
3. Click on "Software Training" link present in the header part of the screen, and select "Training Dashboard".
4. Then locate "Approval Pending" under "Online Assessment Test" and click "Accept".
5. By approving the "Test" request, you are confirming your presence for the Test day.

Step 3: On the day of the Test :

1. Login to http://spoken-tutorial.org and enter your (Invigilator) Username and Password.
2. Click on **"Software Training"** link present in the header part of the screen, then select **"Training Dashboard "**.
3. Select **"Ongoing Tests"** then click on **"Attendance".**
4. Verbally, instruct and guide all the participants for the procedures related to the **"Online Test".**
5. You will see a name list of participants, who took the Training conducted by an Organiser of your Institution. (The list will comprise of the names which were present in the CSV file uploaded while raising the Training request)
6. Select all the names of the participants who have come to the lab, to appear for the Online Test and click the **"Submit"** button.

NOTE:

1. After the completion of the Test by all the students / participants, click on **"Close the Test"** link, to end the process.
2. Completion Certificates will be automatically generated for the participants who cleared the test by securing 40% or above.
3. Certificates can be viewed by the students / participants via their own "Student Dashboard".
4. Additionally, the respective "Organizer" and the "Invigilator" who have conducted the Test, can also view all the students' scores.
5. Participants who don't pass in the Test, will get a chance to re-attempt the Test after a gap of 15 days.
6. No. of attempts are not restricted, so as to enable participants to clear the Test in multiple attempts.

KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

Spoken tutorial IIT Bombay

Participant List

ıss: F.Y. B.Tech (computer Engg.)

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KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

Spoken tutorial IIT Bombay

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CES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

Spoken tutorial IIT Bombay

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KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

Spoken tutorial IIT Bombay

Participant List

Class: F.Y. B.Tech (Electrical Engg.)

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Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **ADITYA MAHAJAN** participated in the **C and Cpp** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** 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.

April 2nd 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **PRANESH APRAJ** participated in the **C and Cpp** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Prof. Kannan M Moudgalya
IIT Bombay

April 2nd 2021

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Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **TANMAY BHAJANI** participated in the **C and Cpp** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** 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.

April 2nd 2021

Prof. Kannan M Moudgalya
IIT Bombay

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Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **JAYESH BADGUJAR** participated in the **C and Cpp** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** 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.

April 2nd 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India