V.S.R. GOVERNMENT DEGREE & P.G. COLLEGE
MOVVA-521135, KRISHNA DISTRICT, ANDRHA PRADESH
NAAC Accredited with "A" Grade (3.01 CGPA)
ISO 9001:2015, 14001:2015, 50001:2011 Certified Institution
(Affiliated to Krishna University)

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1.2.1   Details of Certificate/Value added Courses

Online Short Term Skill Training Course on
IIT-Bombay Spoken Tutorial

Name of Certificate Programe:: C & CPP

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Syllabus IIT Bombay Certification under the Spoken Tutorial Project

Course Name: <u>C & CPP</u>   **Credit Hours:**   <u>30</u>

1) First C Program

- -Header Files
    - example: #include <stdio.h>
- main()
- Curly braces { }
- printf()
- semicolon ;

- Compiling a C program
    - example: gcc filename.c -o output parameter
- Executing a C program
    - example: ./output parameter
- Errors

2) First C++ Program

- Header files
    - --example: #include <iostream>
- main()
- Curly braces { }
- -cout<<
- semicolon ;

- Compiling a C++ program
    - example: g++ filename.cpp -o output parameter
- Executing a C program
    - example: ./output parameter

3) Tokens in C and C++

- Data types, constants, identifiers

- Keywords
  - example: if, break, else
- Constants
- Data types
  - example: int, float, char, double
- Format specifiers
  - example: %d, %f, %c, %lf
- Range of data types
- Variables
- Identifier
- Errors

4) **Functions in C and C++**

- What is a function
- Syntax for declaration of a function
- Function with arguments
  - example: return-type function-name(parameter);
- Function without arguments
  - example: return-type function-name;
- Calling a function
- Errors

5) **Scope of Variables in C and C++**

- Introduction
- Syntax of declaring a variable
  - example: data-type var-name;
- Syntax for initializing a variable
  - example: data-type var-name = value;
- Scope of variables
- Global variable
- Local variable
- Error

6) **If And Else If statement in C and C++**

- What are Statements.
- Syntax for if and
- If-else Statement
- Errors

7) Nested if and switch statement in C and C++

- Nested if statement.
- Switch statement.
- Syntax for nested-if statement
- Syntax for switch statement
- break statement
- Comparison between nested if-else and switch statement
- Errors

8) Increment and Decrement Operators in C and C++

- Increment Operator
  - example: ++
- Postfix increment
  - example: a++
- Prefix increment
  - example: ++a
- Decrement Operator
  - example: --
- Postfix decrement
  - example: a--
- Prefix decrement
  - example: --a
- Typecasting
- Errors

9) Arithmetic Operators in C and C++

- Arithmetic Operators
- Addition Operator
  - example: a + b
- Subtraction Operator
  - example: a - b
- Multiplication Operator
  - example: a * b
- Division Operator
  - example: a \ b
- Modulus Operator
  - example: a % b

- Errors

10) Relational Operators in C and C++

- Double Equal to
  - example: a == b
- Not Equal to
  - example: a != b
- Greater Than
  - example: a > b
- Less Than
  - example: a < b
- Greater than Equal To
  - example: a >= b
- Less Than Equal To
  - example: a <= b
- Errors

11) Logical Operators in C and C++

- And &&
- Or ||
- Not !
- Errors

Intermediate level

12) Loops in C and C++

- Loops
- Syntax for while and do-while loop
- Comparison of while and do-while loop
- Syntax for
- for loop
- Errors

13) Arrays in C and C++

- What are arrays
- 1-D Arrays
- Syntax for Declaration of arrays
  - example: data type array_name [size];

- Syntax for Initialization of arrays
  - example: data type array_name [size]=value;
- Accepting values from the user
- Errors

14) Working with 2-D Arrays in C and C++

- What are 2-D Arrays.
- Range of arrays
- Syntax for Declaration of 2-D arrays
  - example: data type array_name[row][column];
- Syntax for initialization of 2-D arrays
  - example: data type array_name[row][column]=

{

{row-val},{col-val}

};

- Errors

15) Strings in C and C++

- What is a string
- Syntax for declaring a string
- Syntax for initializing a string
- To read a string from keyboard
- Errors

16) String Library Functions in C and C++

- What are string library functions.
- Types of string library functions
  - Strcpy
  - Strlen
  - Strcmp
  - Strcat
- Errors

Advanced level

17) Working with Structures in C and C++

- Introduction
- Syntax of structures

- Declaration and initialization
- Declaration of structure variable
- Accessing structure variables

18) **Understanding Pointers in C and C++**

- Introduction
- Syntax of Pointer
  - example: int *iptr;
- Declaration
  - example:

int a; (integer a) int *aptr; (pointer to an integer *aptr) aptr = &a; (aptr set to address of a) Address Pointer

- Errors

19) **Function call in C and C++**

- types of function calls
- function pass by value
- function pass by reference

20) **File Handling in C**

- File handling functions
- Opening a File closing a file
  - example: fopen, fclose
- Reading data from a File

For and On behalf of
**Spoken Tutorials,
Indian Institute of Technology, Bombay**

**Mrs. Akanksha Saini
National Coordinator
Spoken Tutorial Project, IIT Bombay**

62

II YEARS

SPOKEN TUTORIAL EXAM RESULT STATUS II M.P.C.S

"C" Language.

S.NO	First Name	Last Name	Email Id	Score
1	ADDETI	GANESHKUMAR	ganeshntr1188@gmail.com	22.5 (Fail)
2	BATTU	UDAYKIRAN	battuuday2019@gmail.com	52.5% - Certificate
3	BORRA	PARSHUDHBABU	parshudhborraborra@gmail.com	45.0% - Certificate
4	DEKKA	VAMSIBABU	vamsidekkavamsi3338@gmail.com	17.5 (Fail)
5	GORRIPATHI	VVVKCHINTAYA	gvvk2000@gmail.com	55.0% - Certificate
6	GORJI	SURYAGOWTHAM	suryagowtham939@gmail.com	60.0% - Certificate
7	JANNU	RADHIKA	jradhi2001@gmail.com	35.0 (Fail)
8	JONNALAGADDA	TARUNKUMAR	jtarunkumar141@gmail.com	20.0 (Fail)
9	KASANI	VENKATANAGAAMALESWARI	sribala095@gmail.com	47.5% - Certificate
10	KOKKILIGADDA	LAVANYA	lavanyakokkiligadda2001@gmail.com	62.5% - Certificate
11	KUMBHAM	GOPICHAND	chandgopi133@gmail.com	7.5 (Fail)
12	MANTADA	RAJKUMAR	rajkumarmantada2000@gmail.com	15.0 (Fail)
13	MURARI	VIJAYAMADHAVI	vijayamadhavi.murari2002@gmail.com	62.5% - Certificate

Total Reg=

Total certificaty
Recieved (PASS)
= 27
(FAIL) = 44

Technical
problems=

14	NIDUMOLU	SAAMYUL	nsaamyul123@gmail.com	50.0% - Certificate
15	PEDASANAGANTI	RAMAVENKATASAIKUMAR	saikumarsai1909@gmail.com	72.5% - Certificate
16	PENDURTHI	BUDDAKUMAR	pendurthibuddakumar@gmail.com	52.5% - Certificate
17	YELESWARAPU	SAISRIDHAR	yeleswarapusridhar@gmail.com	42.5% - Certificate

NOTE: The studnets who have not attempted the exam register again with valid email with the help of JKC Monitoring cell

& the students who have qualified receive certificates

signature of the JKC-Cordinator

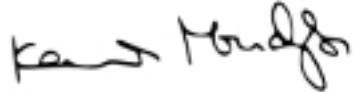Degree & P.G College

pass   fail

11   06

Certificate for the Completion of
C Training

This is to certify that **YADLA PHANEENDRA** has successfully completed **C** test organized at **Government Degree College Movva** by **VSRGDC MOVVA** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **DEVARAPALLI suresh** from **Government Degree College Movva** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

Credits: 2   **Score:** 42.50%

January 28th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

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Instruction For Participants for Taking the Test
Procedure to be followed by the Participants/Students for taking the Online Test

Steps for taking the Test:

Step 1:
- Login to the Student Dashboard (http://spoken-tutorial.org/participant/login/), Go to 'Ongoing Test' and click 'Enroll', The invigilator will mark the Attendance for you.

Step 2:
- Please refresh your browser screen after the invigilator marks your attendance, click 'Enter into Test' in the Ongoing test tab. It will take you to a new window (Spoken Tutorial Online Test Center).

Step 3:
- After you enter your Username and Password, you will see the Homepage where you will get the list of Tests available for variuos FOSS / Courses. Click on the Test which you want to give.

(**Note:** Read the instructions which apear on the screen.)

Step 4:
- Click on "**Attempt Quiz Now**". Then click on "Start Attempt".

Step 5:
- At the end of the test, click on "**Finish attempt**" in the Quiz Navigation Panel. You will get to see "**Summary of Attempts**".
- It will also show if you missed any questions. You can click on " **Return to attempts**" or you can go back and attempt by clicking on the particular question number.

Step 6:
- Confirm by clicking on "**Submit All and Finish**" once you have completed the test.
- You will get your test score on the spot.

Note:
- Duration of the test will be between **20 mins to 45 mins**, depending on the FOSS selected for the Test.
- Answer all the questions, don't leave out any.
- Please note that you will be able to view the certificate only on scoring **40% or above**.
- Login with your Username and Password in the 'Participant Dashboard' for **downloading the Certificates**.
- Participants who don't pass in the Test, will get a chance to re-attempt the Test after a gap of **15 days**.

AY 2020-21

II YEARS

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