SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru - 562 157

Department of Information Science and Engineering

Subject: C Programming Laboratory

Semester: II   **Subject Code:18CPL27**

Sl No	Experiment	YouTube Link
1	How to make first C program -Compile and run in Turbo c++	https://www.youtube.com/watch?v=gVdi1fa3LRs
2	Simple Calculator Program using Switch Case	https://www.youtube.com/watch?v=HHuaYKKoMR4
3	C Program Quadratic equation	https://www.youtube.com/watch?v=mFDoI4p3bew
4	Program to check palindrome number	https://www.youtube.com/watch?v=Qq_jpFk-bII&t=684s
5	C Program for Electricity Bill Calculation	https://www.youtube.com/watch?v=8NmSfjsf7As
6	Binary Search	https://www.youtube.com/watch?v=81QLBCW94Oo&t=21s
7	PRIME NUMBER	https://www.youtube.com/watch?v=ELWv1DX4FxE
8	Matrix Multiplication	https://www.youtube.com/watch?v=PqobOjdYyBU
9	Sin series	https://www.youtube.com/watch?v=E6PYipCNBuA
10	String Operations	https://www.youtube.com/watch?v=-aq1HABoA7E
11	Bubble sort	https://www.youtube.com/watch?v=Jdtq5uKz-w4&t=5s
12	Simple C Program to Find Square Root of Any Number	https://www.youtube.com/watch?v=tdjIdhnglgw

13	Program to find total and average of the student marks using structures	https://www.youtube.com/watch?v=q1Lh_N78f6o
14	Calculate Sum, Average, Variance and Standard Deviation	https://www.youtube.com/watch?v=2CU6uSjyndA
15	C Program To Convert Decimal To Binary Number using Recursion	https://www.youtube.com/watch?v=hBaesKngoMY&t=23s

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Subject: Design and Analysis of Algorithm.   **Sub code:18CSL47**

Semester: IV

Sl No	Experiment	YouTube Link
1	Quick sort.	https://www.youtube.com/watch?v=uwlGJMZZAW4
2	Merge sort	https://www.youtube.com/watch?v=yq5hQmrxAUU
3	3a. program to read two integers *a* and *b*. Compute *a*/*b* and print, when *b* is not zero. Raise an exception when *b* is equal to zero	https://www.youtube.com/watch?v=OnrjFruoZ0g
4	3b. program that implements a multi-thread application that has three threads. First thread generates a random integer for every 1 second; second thread computes the square of the number and prints third thread will print the value of cube of the number.	https://www.youtube.com/watch?v=Z3gNGDtaWVQ
5	Kruskal	https://www.youtube.com/watch?v=vc5MfgBc5LE.
6	Dijstra	https://www.youtube.com/watch?v=vc5MfgBc5LE
7	Knapsack	https://www.youtube.com/watch?v=vc5MfgBc5LE

8	1a) Reading and Displaying student details like Name,USN and Branch	https://www.youtube.com/watch?v=mO5BHSx5riE
9	1b) Stack operatiopn	https://www.youtube.com/watch?v=TjTwXY1Efr0
10	2a) Application using Super class in Java	https://www.youtube.com/watch?v=trIu9_7ryBk&list=PL50gmz-kRGmM6YieWH9LtNqVbWKEuha0I&index=3
11	Store name and DOB of customer and display the same using String Tokenizer class.	https://www.youtube.com/watch?v=K0w2DJ_TLl4
12	Floyd's Algorithm	https://www.youtube.com/watch?v=TeLSoeK3KKY&t=16s

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Subject: Microcontroller & Embedded systems Lab.

Sub code:18CSL48

Semester: IV

Sl No	Experiment	YouTube Link
1	Basic to LPC2148	https://www.youtube.com/watch?v=93Rb1yw8BW4
2	GPIO Registers	https://www.youtube.com/watch?v=xXNxAoB7-54
3	Program to find largest number	https://www.youtube.com/watch?v=v7sZcAayfkk

Subject: File Structure Lab.   **Sub code:17ISL47**

Semester: VI

Sl No	Experiment	YouTube Link
1	Program to read series of names, one per line, from standard input and write these names spelled in reverse order to the standard output using I/O redirection and pipes.	https://youtu.be/4dLf8H46GU0
2	Write a program to read and write students objects with fixed – length records and the fields delimited by "|". Implement pack( ),unpack( ),modify( ) and search( ) methods.	https://youtu.be/tJHvDT3UGjo
3	Write a program to read and write students objects with variable – length records and the fields delimited by "|". Implement pack( ),unpack( ),modify( ) and search( ) methods.	https://www.youtube.com/watch?v=46BGvjyiFaA
4	Write a C++ program to write student objects with Variable – length records using any suitable field structure and to read from	https://youtu.be/L-oe7SgPVHg

	this file a student record using RRN.	
5	Write a C++ program to implement simple index on primary key for a file of student objects. Implement add( ),search( ),delete( ) using the index.	https://youtu.be/WatfMv48LKs
6	Write a C++ program to implement index on secondary key , the name , for a file of student objects. Implement add( ),search( ),delete( ) using the secondary index.	https://youtu.be/0yJFETKqipM
7	Write a C++ program to read two lists of names and then match the names in the two lists using Cosequential Match based on a single loop. Output the names common to both the lists.	https://youtu.be/epE2b-irxAU
8	Write a C++ program to read k lists of names and merge them using merge algorithm with k = 8.	**https://youtu.be/PceZhG72e7s** https://youtu.be/yADzobZh9kQ

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Subject: Software Testing Lab.   **Sub code:17ISL48**

Semester: VI

Sl No	Experiment	YouTube Link
1	Design and develop a program in a language of your choice to solve the triangle problem defined as follows : Accept three integers which are supposed to be the three sides of a triangle and determine if the three values represent an equilateral triangle, isosceles triangle, scalene triangle, or they do not form a triangle at all. Assume that the upper limit for the size of any side is 10. Derive test cases for your program based on boundary value analysis, execute the test cases and discuss the result.	https://www.youtube.com/watch?v=Lr5DLXBloTc
2	Design , develop, code and run the program in any suitable language to solve the commission problem, Analyze it from the perspective of boundary value testing, derive different test cases, execute these test cases and discuss the test results.	https://www.youtube.com/watch?v=40IMy5vlk0U
3	Design, develop, code and run the program in	https://www.youtube.com/watch?v=62VHhLUWBHQ&t=261s

	any suitable language to implement the nextdate function. Analyze it from the perspective of boundary value testing , derive different test cases, execute these test cases and discuss the test results.	
4	Design and develop a program in a language of your choice to solve the triangle problem defined as follows : Accept three integers which are supposed to be the three sides of a triangle and determine if the three values represent an equilateral triangle, isosceles triangle, scalene triangle, or they do not form a triangle at all. Assume that the upper limit for the size of any side is 10. Derive test cases for your program based on equivalence class partitioning, execute the test cases and discuss the results	https://www.youtube.com/watch?v=pnkeTPpTpoU
5	Design, develop, code and run the program in any suitable language to solve the commission problem, Analyze it from the perspective of equivalence class testing, derive different test cases, execute these test cases and discuss the test results.	https://www.youtube.com/watch?v=n7nDVl8ikfw
6	Design, develop, code and run the program in any suitable language to implement the nextdate function. Analyze it from the perspective of equivalence class value testing, derive different test cases, execute	https://www.youtube.com/watch?v=rEgxNWTH7cE

	these test cases and discuss the test results.	
7	Design and develop a program in a language of your choice to solve te triangle problem defined as follows : Accept three integers which are supposed to be the three sides of a triangle and determine if the three values represent an equilateral triangle,isosceles triangle, scalene triangle, or they do not form a triangle at all. Derive test cases for your program based on decision – table approach, execute the test cases and discuss results.	https://www.youtube.com/watch?v=pnkeTPpTpoU
8	Design , develop, code and run the program in any suitable language to solve the commission problem. Analyze it from the perspective of decision table – based testing, derive different test cases, execute these test cases and discuss the test results.	https://www.youtube.com/watch?v=KHUlci25IOI
9	Design, develop, code and run the program in any suitable language to solve the commission problem. Analyze it from the perspective of dataflow testing, derive different test cases, execute these test cases and discuss the test results.	https://www.youtube.com/watch?v=0NpS6QsWQYk
10	Design, develop, code and run the program in any suitable language to implement the binary search algorithm. Determine the basis paths and using them derive different test cases, execute these test cases	https://www.youtube.com/watch?v=s1z9xLmily0

	and discuss the test results.	
11	Design, develop, code and run the program in any suitable language to implement the quicksort algorithm. Determine the basis paths and using them derive different test cases, execute these test cases and discuss the test results.	https://www.youtube.com/watch?v=rEgxNWTH7cE
12	Design, develop, code and run the program in any suitable language to implement an absolute letter grading procedure, making suitable assumptions. Determine the basis paths and using them derive different test cases, execute these test cass and discuss the test results.	https://www.youtube.com/watch?v=xyQ4K-FvyhY