

List of Programs for Practical
Subject: Computer Science (083) Class: XI

INTRODUCTION TO C++

- 1 Write a c++ program that input's a student's marks in five subjects(out of 100) and print the percentage
- 2 To convert given number of days into years, weeks and days
- 3 To find minimum of three numbers using conditional operator

FLOW OF CONTROL

- 4 Write a program to print the largest of three numbers.(only if)
- 5 Write a program to print the mathematical table of a number
- 6 Write a program to display the name of the month depends upon the number (between 1-12) be enter by the user.(switch)
- 7 Write a program to check whether a entered year is leap year or not.
- 8 Write a program to find the sum of first “n “natural numbers
- 9 Write a program to find the factorial value of a number entered by the user.
- 10 Write a program to find the value of “m” to the power “n”.
- 11 Write a program to print the Fibonacci series of specified terms (0 1 1 2 3 5)
- 12 Write a program to find sum of all the digits of a given number.(while)
- 13 Write a program to check whether the number is prime or not.
- 14 Write a program to check whether a number is palindrome or not.
- 15 Find GCD and LCM of two numbers
- 16 Write a program to print the given figure:

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*
 * * *
* * * * *
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- 17 Write a program to print the given figure
A
A B
A B C
A B C D

STANDARD LIBRARY FUNCTIONS

- 18 Write a program to check whether a character is an alphabet or not and also check its Case
- 19 Write a program that reads a string and converts case of each character in the string
- 20 Write a program that reads a string and a character and Count the number of occurrence of the character in the given string

USER DEFINED FUNCTIONS

- 21 To swap two numbers (call by reference)
- 22 To check whether the given character is present in the string
- 23 To find minimum of three numbers

1 D ARRAY

- 24 Write a program to find the largest and smallest element in a vector
- 25 Write a program to arrange the array elements in ascending order.
- 26 Write a program to search a specified element in a given array.
- 27 To find largest element of an Array (using function)

STRING AS AN ARRAY

- 28 To check if a string is a palindrome or not
- 29 To count number of words, characters, vowels in a given string

2 D ARRAY

- 30 Write a program to add two matrices.
- 31 Write a program to find the product of two matrices.
- 32 To find Transpose of a matrix
- 33 Write a program to find the sum of left and right diagonal of a 3x3 matrix.

STRUCTURES

- 34 Write a program to make a structure of student with the following details.
(Name, Age, Class, Marks, Average, Result) & Get Input from the user for the data Name, Age, Class
Marks and Find the average & result of the student
if average \geq 40 result 'P' if not result 'F'

SOME EXTRA PROGRAMS

- 35 Do the following programs
 - i) Convert decimal to binary
 - ii) Swap two numbers without using third variable
 - iii) To display substring of a given string
 - iv) Adam Number Checking
 - v) Armstrong Number Checking
 - vi) Prime numbers in a given range
 - vii) To remove duplicates in a vector (1 D Array)