

C Programs

1. Largest among four numbers
2. Factorial of n number
3. Read and print an array of 5 elements
4. Swapping Two numbers
5. Positive or Negative
6. Even or Odd
7. generate multiplication table

C++ programs using looping statement

1. Palindrome
2. Reverse an integer
3. Armstrong
4. Prime or not
5. Matrix addition

1. Program to print the Lucas series for n terms.
2. Write a C++ program to find both the largest and smallest number in a list of integers.
3. Write a program to display output using a single cout statement.

Subject	Marks
Mathematics	90
Computer	77
Chemistry	69
4. Write a program which accept temperature in Farenheit and print it in centigrade
[Formula : $C = 5 * (F - 32) / 9$]
5. Write a program which accept principle, rate and time from user and print the simple interest [$SI = (p * r * t) / 100$].
6. Write a program to calculate area of circle.
7. Write a program which accepts a character and display its ASCII value.
8. Write a program to swap value of two variables without using third variable.
9. Write a program which accepts amount as integer and display total number of Notes of Rs. 500, 100, 50, 20, 10, 5 and 1.
10. Write a program which accepts a character and display its next character.

1. Write a program that lets the user perform arithmetic operations on two numbers. Your program must be menu driven, allowing the user to select the operation (+, -, *, or /) and input the numbers. Furthermore, your program must consist of following functions:

1. Function showChoice: This function shows the options to the user and explains how to enter data.
2. Function add: This function accepts two number as arguments and returns sum.
3. Function subtract: This function accepts two number as arguments and returns their difference.
4. Function multiply: This function accepts two number as arguments and returns product.
5. Function divide: This function accepts two number as arguments and returns quotient.

2. Write a program which input principal, rate and time from user and calculate compound interest. You can use library function.

$$CI = P(1+R/100)^T - P$$

3. Write a program to compute area of triangle. Sides are input by user.

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

where $s = (a+b+c)/2$.

4. Write a program which display a number between 10 to 100 randomly.

5. Write a program which accept a letter and display it in uppercase letter.

Lab Cycle Sheet using Class and Objects

1. Given that an EMPLOYEE class contains following members; data members: Employee number, Employee name, Basic, DA, IT, Net Salary and print data members. Write a C++ program to read the data of N employee and display the computed Net salary of each employee (DA=52% of Basic and Income Tax(IT) =30% of the gross salary) .
2. Create a 'DISTANCE' class with :
 - feet and inches as data members
 - member function to input distance
 - member function to output distance
 - member function to add two distance objectsWrite a main function to create objects of DISTANCE class. Input two distances and output the sum.
3. Create a class called 'EMPLOYEE' that has
 - EMPCODE and EMPNAME as data members
 - member function getdata() to input data
 - member function display() to output dataWrite a main function to create EMP, an array of EMPLOYEE objects. Accept and display the details of at least 6 employees.
4. Create class first with data members book no, book name and member function getdata() and putdata(). Create a class second with data members author name, publisher and members getdata() and showdata(). Derive a class third from first and second with data member no of pages and year of publication. Display all these information using array of objects of third class.