1. Write a program to calculate weight for the given mass. Make acceleration due to gravity g=9.8 as default argument.
2. Write a program to overload a function that receives float, character and int type of data.
3. Write a program to find largest of two numbers using the concept of nesting of member function.
4. Create a class called student with three data members (student name[20], roll\_no, Address) function called input-data() to take details of the students from the user, and a function called display\_data( )to display the details of the students. In main, create two objects of the class student and for each call both of the functions.
5. Create a new class named city that will have two member variables Cityname(char[20]},and DistFromKTM(float). Add member functions to set and retrieve the CityName and DistFrom KTM separately. Add new member functions AddDistance that takes two arguments of class City and returns the sum of DistFrom KTM of two arguments. In main function,initialize three city objects. Set the first and second city to be Pokhara and Dhangadi. Display the sum of DistFromKTM of Pokhara and Dhangadi calling AddDistance function of third city object. (use objects as function Arguments).
6. Write a program to add two complex numbers using the concept of constructor overloading.
7. WAP declaring a class and object to input assessment marks and practical marks defining functions setmark and publishmark. Define the function inside the class.
8. Write a program to add two complex numbers by overloading binary operator ( + ).
9. Write a program to overload “ ++ “ (both prefix and postfix ) operator.
10. Convert rectangle to polar by Class type to Class type conversion using constructor in the destination class.
11. Convert polar to rectangle by Class type to Class type conversion using constructor in the destination class.
12. Convert polar to rectangle type conversion using casting operator in the destination class.
13. Convert rectangle to polar type conversion using casting operator in the destination class
14. Write a program of single inheritance :

Base Class : B

* Private member : a (int)
* Public member: b (int)

Derived Class : D

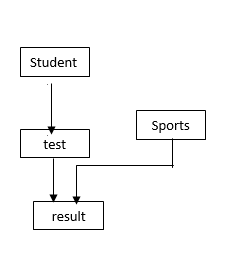
* Private member : c (int)

Calculate c = a\* b and display

a) public derivation

b) private derivation.

1. Solve the following form of Hybrid Inheritance.



1. Write a program to read information of three employees (name, address and salary). Make three separate classes for each employee. Now, calculate the total salary of three employee and display all information. Use the concept of friend function in your program
2. Write a program to solve the concept of virtual function.
3. Write a program of virtual destructor.
4. Write a program to show addition, subtraction, division, multiplication operations making four different functions. Test your program by using the concept of template handling.
5. Write a program to show the basic concept of exception handling