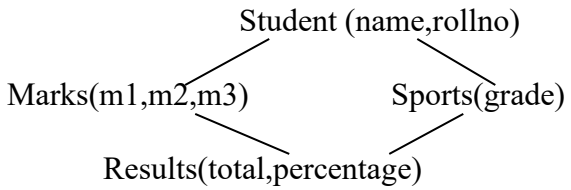
Lab-8 Inheritance with constructors and destructors,Virtual base class,Nested class

1.Create a class which stores account number, customer name and balance. Derive two classes from ‘Account’ class: ‘Savings’ and ‘Current’. The ‘Savings’ class stores minimum balance. The ‘Current’ class stores the over-due amount. Include member functions in the appropriate class for
-deposit money
-withdraw [For saving account minimum balance should be checked.]
[For current account overdue amount should be calculated.]
-display balance.

2.WAP to demonstrate the order of call of constructors and destructors in case of single, multi-level, multiple and hierarchical inheritance.

3.WAP to demonstrate the order of call of constructors and destructors in case of virtual base class.

4.Create a class student which stores name, roll number and age of a student. Derive two class ‘test’ and ‘sports’ from student class, in which ‘test’ class stores marks in 5 subjects and ‘sports’ class stores the marks in sports activity. Derive the result class from the classes ‘test’ and ‘sports’. Create objects using parameterized constructors .Calculate the total marks and percentage of a student.Display all the details of the student. (total = m1+m2+m3+grade.)



5.Write a program in C++ to create a Class Coins_Bit having a private data member BITCOIN. Create another class **inside** Coins_Bit class called Bitcoin_Value in which functions display() and calculate() are used to convert the BITCOIN value from dollars to rupees and display it. Create object of nested class and display the bitcoin value.