Exercise 11:   To construct a cpp program by using multiple inheritance.

Source code:

```cpp
#include <iostream>

using namespace std;

// create base class1

class student_detail

{

  // access specifier

  protected:

    int rno, sum = 0, i, marks[5];

   // access specifier

  public:

    void detail()

    {

      cout << " Enter the Roll No: " << endl;

      cin >> rno;

      cout << " Enter the marks of five subjects " << endl;

      // use for loop

      for (i = 0; i < 5; i++)

      {

        cin >> marks[i];

      }

      for ( i = 0; i < 5; i++)

      {

        // store the sum of five subject

      sum = sum + marks[i];

      }

    }


};
```

```cpp
// create base class2

class sports_mark

{

   protected:

      int s_mark;


   public:


      void get_mark()

      {

         cout << "\n Enter the sports mark: ";

         cin >> s_mark;

         }

};



class result: public student_detail, public sports_mark

{

   int tot, avg;

   public:


      // create member function of child class

      void disp ()

      {

         tot = sum + s_mark;

         avg = tot / 6; // total marks of six subject / 6

         cout << " \n \n \t Roll No: " << rno << " \n \t Total: " << tot << endl;

         cout << " \n \t Average Marks: " << avg;

      }

};
```

```
int main ()
{
    result obj; // create an object of the derived class

    // call the member function of the base class
    obj.detail();
    obj.get_mark();
    obj.disp();
}
```

OUTPUT:

Enter the Roll No:

13

 Enter the marks of five subjects

53

63

73

83

93

 Enter the sports mark: 113

     Roll No: 13

     Total: 478

      Average Marks: 79