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Write a program to implement virtual base class

```
#include<iostream>
using namespace std;
class student
protected:
          int roll_no;
public:
          void get_data();
          void put_data();
void student::get_data()
cout << "enter the roll \n";
cin>>roll_no;
void ::put_roll()
cout <<"roll is:" << roll no << endl;
class test:virtual public student
protected:
         int paper1,paper2;
public:
        void get_marks();
        void gput_data();
void test::get_marks()
cout << "enter the marks\n";
cin>>paper1>>paper2;
void test::put_marks()
cout<<"marks in paper1:"<<paper1<<endl;</pre>
cout <<"marks in paper2:" << paper2 << endl;
```

```
class sports:public virtual student
protected:
         int score;
public:
        void get_score();
        void put_marks();
void sport::get_score()
cout << "enter the score \n";
cin>>score;
void sports::put_score()
cout<<"score="<<score<<endl;
class result:public test,public sports
private:
       int total;
public:
       void diplay();
void result::display()
total=paper1+paper2+score;
put_roll();
put_marks();
put_score();
cout << "total score=" << total << endl;
int main()
result P;
P.get_data();
p.get_marks();
P.get_score();
P.display();
return(0);
```

Output

enter the roll 10 enter the marks 80 90 enter the score 50 roll is:10 marks in paper1:80 marks in paper2:90 score=50 total score=220