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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;

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