**SYCM-I** **Roll No:**76

**Date of Performance** : 10/10/2022

**Practical no:** 11.1

**Title** : Program to implement single inheritance

#include<iostream>

using namespace std;

class student

{

private:

int roll\_no;

char name[25];

public:

//member function-01

void get\_data(void)

{

cout<<"Enter roll no: "; cin>>roll\_no;

cout<<"\nEnter name: ";

cin>>name;

}

//member function-02

void display(void)

{

cout<<"Roll no: "<<roll\_no;

cout<<"\nName: "<<name<<endl;

}

};

//Derived class

class marks:public student

{

private:

int m1,m2,m3,total;

float percent;

public:

void get\_marks(void)

{

cout<<"Enter marks of 3 subject: ";

cin>>m1>>m2>>m3;

total=m1+m2+m3;

percent=total/3.0;

}

//member function 2

void put\_marks(void)

{

cout<<"Total Marks= "<<total<<endl;

cout<<"% marks= "<<percent<<"%"<<endl;

}

};

//main function

int main()

{

marks S; //object of derived class

cout<<"\nEnter Information of Student:\n";

S.get\_data();

S.display();

cout<<"\nResult of Student:\n";

S.get\_marks();

S.display();

S.put\_marks();

return 0;

}

**Output:**

Enter Information of Student:

Enter roll no: 15

Enter name: Aditya

Roll no: 15

Name: Aditya

Result of Student:

Enter marks of 3 subject: 88 98 78

Roll no: 15

Name: Aditya

Total Marks= 264

% marks= 88%

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