Develop a program that implements a C++ class “Student” with following data members

* Age
* Roll Number
* markSubject1
* marksSubject2
* marksSubject3

The class should define a method/function to calculate percentage from marks obtained in three subjects.

Finally, you’ll create objects of Student class, initialize their data members through set and get functions, calculate percentages and print summary in the end.

Code:

#include<iostream>

#include<stdio.h>

using namespace std;

class student

{

int roll;

char age [25];

public:

void getdata()

{

cout<<"\n Enter the student roll no:";

cin>>roll;

cout<<"\n Enter the student age:";

cin>>age;

}

void putdata()

{

cout<<"\n The student roll no: "<<roll;

cout<<"\n The student age: "<<age;

}

};

class marks: public student

{

int marksSubject1;

int marksSubject2;

int marksSubject3;

float percentage;

public: void input()

{

getdata();

cout<<"\n marksSubject1:";

cin>>marksSubject1;

cout<<"\n marksSubject2:";

cin>>marksSubject2;

cout<<"\n marksSubject3:";

cin>>marksSubject3;

}

void output()

{

cout<<"\n marksSubject1:"<<marksSubject1;

cout<<"\n marksSubject2:"<<marksSubject2;

cout<<"\n marksSubject3:"<<marksSubject3;

}

void calculate ()

{

percentage= (marksSubject1+marksSubject2+marksSubject3)/float(300);

cout<<"\n total percentage: "<<percentage\*100<<" %";

}

};

int main()

{

marks m1;

int ch;

do

{

cout<<"\n1.Input data";

cout<<"\n2.Output data";

cout<<"\n3.Calculate percentage";

cout<<"\n4.Exit"<<endl;

cout<<"\nEnter the choice"<<endl;

cin>>ch;

switch (ch)

{

case 1:

m1.input();

break;

case 2:

m1.output();

break;

case 3:

m1.calculate();

break;

}

} while (ch!=4);

}