**Q. Define a class student with the following specification**

**Private members of class student**

**admno integer**

**sname 20 character**

**eng. math, science float**

**total float**

**ctotal() a function to calculate eng + math + science with float return type.**

**Public member function of class student**

**Takedata() Function to accept values for admno, sname, eng, science and invoke ctotal() to calculate total.**

**Showdata() Function to display all the data members on the screen.**

**🡪** #include<iostream>

using namespace std;

class Student

{

private:

int admno;

char sname[20];

float eng,math,science;

float total;

float ctotal()

{

total=(eng+math+science);

return(total);

}

public:

void Takedata()

{

cout<<"Enter the value of admno:";

cin>>admno;

cout<<" sname :";

cin>>sname;

cout<<"english :";

cin>>eng;

cout<<"science:";

cin>>science;

cout<<"maths:";

cin>>math;

}

Student(): total(0.0)

{

}

friend float func(Student);

void Showdata()

{

cout<<"\nadm no:"<<admno;

cout<<"\nsname:"<<sname;

cout<<"\nenglish"<<eng;

cout<<"\nscience"<<science;

cout<<"\nmaths"<<math;

}

};

float func(Student t)

{

return t.ctotal();

}

int main()

{

Student s1;

s1.Takedata();

s1.Showdata();

cout<<"\ntotal is:";

cout<<func(s1);

return 0;

}