C++ Programs (30.8.22)

Write a c++ program to find volume of the cone using class and object

#include<iostream>

using namespace std;

class volume

{

public:

int r,h;

float vol;

void data();

};

void volume::data()

{

cout<<"Enter the value of radius = ";

cin>>r;

cout<<"Enter the value of height = ";

cin>>h;

cout<<"The volume of the cone is = ";

vol=0.3\*3.14\*r\*r\*h;

cout<<vol;

}

int main()

{

volume a;

a.data();

return 0;

}

Outputs:

Enter the value of radius = 6

Enter the value of height = 4

The volume of the cone is = 135.648

Enter the value of radius = 5

Enter the value of height = 5

The volume of the cone is = 117.75

Enter the value of radius = 8

Enter the value of height = 4

The volume of the cone is = 241.152

Write a C++ program to calculate the simple interest and compound interest using class and object.

#include<iostream>

#include<math.h>

using namespace std;

class interest

{

public:

float p,n,r;

float si,ci;

void getdata();

void simpleinterest();

void compundinterest();

};

void interest::getdata()

{

cout<<"Enter the value of p= ";

cin>>p;

cout<<"Enter the value of n= ";

cin>>n;

cout<<"Enter the value of r= ";

cin>>r;

}

void interest::simpleinterest()

{

cout<<"the simple interest is= ";

si=(p\*n\*r)/100;

cout<<si;

}

void interest::compundinterest()

{

cout<<"\nThe compound interest is= ";

ci=p\*pow((1+(r/n)),n);

cout<<ci;}

int main()

{

interest i;

i.getdata();

i.simpleinterest();

i.compundinterest();

return 0;

}

Output:

Enter the value of p= 10000

Enter the value of n= 2

Enter the value of r= 0.10

the simple interest is= 20

The compound interest is= 11025

Enter the value of p= 20000

Enter the value of n= 1

Enter the value of r= 0.40

the simple interest is= 80

The compound interest is= 28000