22)Write a C++ program to demonstrate the multiple inheritance by creating a class cuboid which extends class rectangle, class shape. It calculates area and volume.

#include<iostream>

using namespace std;

class rectangle

{

public:

int l,b,h;

void rect()

{

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

cin>>l;

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

cin>>b;

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

cin>>h;

}

};

class shape

{

public:

int w;

void cub()

{

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

cin>>w;

}

};

class cuboid: public rectangle,public shape

{

int a1,v1,a2,v2;

public:

void disp()

{

a1=l\*b;

v1=(l\*b)\*h;

a2=2\*(l\*w)+2\*(h\*w)+2\*(l\*h);

cout<<"Area of rectangle = "<<a1;

cout<<"\nVolume of rectangle = "<<v1;

cout<<"\nArea of Cuboid = "<<a2;

cout<<"\nVolume of Cuboid = "<<v1;

}

};

int main()

{

cuboid c;

c.rect();

c.cub();

c.disp();

}

OUTPUT:

