

# OOP CS-C online Quiz-02

\* Required

1. Email address \*

2. What is the output of the following program? Mention your answer in the given text field. \*

```
class Rectangle
{
    double len;
    double wid;
public:
    Rectangle(double len, double wid)
    {
        this->len=len;
        this->wid=wid;
        cout<<"Rectangle's Constructor"<<endl;
    }
    double perimeter(){return 2*(len+wid);}
    double area() {return len*wid;}

    virtual ~Rectangle() {cout<<"Rectangle's Destructor " <<endl;}};

class Box: public Rectangle
{double height;
public:
    Box(double len, double wid, double height):Rectangle(len, wid)
    {
        this->height=height;
        cout<<"Box3D's Constructor"<<endl;}

    double volume(){return height*area();}
    double area() {return 2*Rectangle::area()+height*perimeter();}
    ~Box(){cout<<"Box3D Destructor"<<endl;}};

int main()
{
    Box boxObj(1,2,3);
    Box *boxPtr= &boxObj;
    Rectangle rectObj(1, 2);
    Rectangle *rectPtr= &rectObj;
    Rectangle *rectPtr2=&boxObj;
    cout<<endl<<"Area is: ";
    cout<<rectPtr2->area()<<"=="<< rectObj.area();
    cout<<endl;
    Rectangle* bx2= dynamic_cast<Box*>(rectPtr2);
    cout<<bx2->area()<<"=="<<boxObj.area();
    cout<<endl<<endl;
    return 0;
}
```

<https://docs.google.com/forms/d/1aqFGe29VAV9SjZc1aiUPjPVUEDnwLXneiB09ahJO-GM/edit> 2/3

3.

If a base class is inherited in protected access mode then which among the

following is true? \*

*Mark only one oval.*

Public and Protected members of base class becomes protected members of derived class

Only protected members become protected members of derived class

Private, Protected and Public all members of base, become private of derived class

Only private members of base, become private of derived class

4.

The private members of the base class are visible in derived class but are not accessible directly.

*Mark only one oval.*

True

False

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## Forms