Labsheet 7

```
01)
    Result - 100
   Why? - x variable value can't change in the class Undergraduate
02)
   package com.mycompany.shapeobj;
   abstract class Shape
      abstract double calculateArea();
      public void display()
      {
        System.out.println("Shape: ");
      }
   }
    public class Circle extends Shape
      private double radius;
      public Circle(double r)
        radius=r;
      }
      @Override
      double calculateArea()
        return 3.1459f*radius*radius;
    }
    public class Rectangle extends Shape
      private double length, width;
      public Rectangle(double I,double w)
      {
        length=I;
        width=w;
      }
```

```
@Override
double calculateArea()
{
    return length*width;
}

public class ShapeObj
{

    public static void main(String[] args)
    {
        Circle c1=new Circle(10);
        c1.calculateArea();
        Rectangle r1=new Rectangle(10,5);
        r1.calculateArea();

        System.out.println("Area of circle is "+c1.calculateArea());
        System.out.println("Area of rectangle is "+r1.calculateArea());
    }
}
```