Lab - 4

```
import java.util.*;
class Dclass {
public static void main () {
 Rectangle ob1 = new Rectangle ();
 ob1.printArea ();
 Circle ob2 = new Circle ();
 ob2.printArea ();
 Triangle ob3 = new Triangle ();
 ob3.printArea ();
  }
}
abstract class Shape {
 int i, j;
 void printArea ();
}
class Rectangle extends Shape {
void printArea() {
 Scanner sc = new Scanner (System.in);
 System.out.println ("Enter length");
 super.i = sc.nextInt ();
 System.out.println ("Enter height");
 super.j = sc.nextInt ();
 System.out.println ("Area = " + (super.i * super.j));
 }
}
class Circle extends Shape {
 void printArea () {
 Scanner sc = new Scanner (System.in);
 System.out.println (" Enter radius");
 super.i = sc.nextInt ();
 System.out.println ("Area =" + (3.14 * super.i * super.i));
 } }
```

```
class Triangle extends Shape {
void printArea() {
  Scanner sc = new Scanner(System.in);
  System.out.println("Enter base");
  super.i = sc.nextInt();
  System.out.println("Enter height");
  super.j = sc.nextInt();
  System.out.println("Area=" + (super.i * super.j * 0.5));
 }
}
```

```
import java.util.*;
class Dclass {
    public static void main() {
        Rectangle ob1=new Rectangle();
        ob1.printArea();
        Triangle ob2=new Triangle();
        ob2.printArea();
        Circle ob3=new Circle();
        ob3.printArea();
    }
}
abstract class Shape {
    int i;
    int j;
    void printArea() ()
}
class Rectangle extends Shape {
    void printArea() {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter length");
        super.i=sc.nextInt();
        System.out.println("Enter height");
        super.j=sc.nextInt();
        System.out.println("Rectangle Area="+ (super.i*super.j));
    }
}
class Circle extends Shape {
    void printArea() {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter radius");
        super.i=sc.nextInt();
        System.out.println("Circle Area="+ (3.14*super.i*super.i));
    }
}
class Triangle extends Shape {
    void printArea() {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter base");
        super.i=sc.nextInt();
        System.out.println("Enter height");
```

```
 Enter length
10
Enter height
10
Rectangle Area=100
Enter base
4
Enter height
2
Triangle Area=4
Enter radius
10
Circle Area=314.0
```