

Week 8.

Lab Programs.

ex-1.
import java.util.Scanner;
abstract class Shape {
 int a;
 int b;
 abstract void print Area();
}

class Rectangle extends Shape {
 Scanner sc = new Scanner(System.in);
 void print Area() {
 System.out.println("length of rectangle:");
 a = sc.nextInt();
 System.out.println("Breadth of rectangle:");
 b = sc.nextInt();
 System.out.println("Area: " + a * b);
 }
}

3
class Triangle extends Shape {
 Scanner sc = new Scanner(System.in);
 void Print Area() {
 System.out.println("Enter the base of triangle:");
 a = sc.nextInt();
 System.out.println("Enter the height of triangle:");
 b = sc.nextInt();
 System.out.println("Area: " + (a * b) / 2);
 }
}

3
class Circle extends Shape {
 double res;

```

Scanner sc = new Scanner(System.in);
csid printArea() {
    System.out.println("Enter the radius of circle: ");
    a = sc.nextInt();
    res = (double) 3.14 * (a * a);
    System.out.println("Area: " + res);
}

```

}

```

class Test {
    public static void main (String args[]) {
        rectangle r = new rectangle ();
        triangle t = new triangle ();
        circle c = new circle ();
        r.printArea();
        t.printArea();
        c.printArea();
    }
}

```

}

}