* Week 7 Program :] Inheritance Practice

LAB - 4   AREA INHERITANCE

```java
import java.util.*;

class Shape {
        int s_length;
        int s_breadth;

    void printArea() { }

    Scanner s_inp = new Scanner(system.in);
}

class Rectangle extends Shape {

    void printArea() {
        System.out.println ("Enter the length ");
        s_length = s_inp.nextInt;
        System.out.println (" Enter the breadth ");
        s_breadth = s_inp.nextInt;

        System.out.println ("the area of rectangle is : "
                        +  (s_length * s_breadth);
    }

}
```

```java
class Triangl extends Shape
{
    void printArea()
    {
        System.out.println("Enter the Height");
        S_length = S_inp.nextInt;
        System.out.println("Enter the Base");
        S_breadth = S_inp.nextInt;

        System.out.println("Area of Triangle is " +
                    (0.5 * S_breadth * S_length);
    }
}

class Circle extends Shape
{
    void printArea()
    {
        System.out.println("Enter the Radius");
        S_length = S_inp.nextInt();

        System.out.println("Area of Circle is " +
                    3.143 * S_length * S_length);
    }
}
```

```java
public class App {

    public static void main(String args[]) {

        Rectangle R1 = new Rectangle();
        Triangle T1 = new Triangle();
        Circle C1 = new Circle();

        R1.printArea();
        T1.printArea();
        C1.printArea();

    }

}
```

Output:

→ Enter the height and breadth
5
2
The Area of Rectangle is 10

→ Enter the height and base
2
4
the Area of Triangle is 4

→ Enter the Radius
2
The area of Circle is 12.572