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1BM19ES014

Lab 4:

```java
import java.util.*;
abstract class shape {
    int length, breadth, radius;
    Scanner input = new Scanner (System.in);
    abstract void printArea();
}
class Rectangle extends shape {
    void printArea() {
        System.out.println(" Finding the area of Rectangle");
        System.out.println("Enter the length & breadth");
        length = input.nextInt();
        breadth = input.nextInt();
        System.out.println("The area of Rectange is: "+ length*breadth);
    }
}

class Triangle extends shape {
    void printArea()
    { System.out.println(" Finding the area of triangle);
        System.out.println(" Enter base & height);
        length = input.nextInt();
        breadth = input.nextInt();
        System.out.println(" The area of Triangle: "
                                + length*breadth)/2);
    }}

class Circle extends shape {
    void printArea() {
        System.out.println(" Finding the area of circle);
        System.out.println(" Enter radius ");
        radius = input.nextInt();
        System.out.println(" Area of circle: "+3.14f*r*r);
    }}
```

```
public class area {
    public static void main (string args [])
    {   Rectangle rec = new Rectangle ();
        rec. print Area ();
        Triangle tri = new Triangle ();
        tri. printArea ();
        Circle  ci = new Circle ();
        ci. print Area ();
    }
}
```