Lab 4.

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YOUVA

```
import java.util.;
abstract class shape
{
    int a;
    int b;
    abstract void printArea();
}
class Rectangle extends shape
{
    Rectangle(int x, int y)
    {
        a = x;
        b = y;
    }
    void printarea()
    {
    System.out.println("Area is " + (a*b));
    }
}
class Triangle extends shape
{
    Triangle(int x, int y)
    {
        a = x;
        b = y;
    }
    void printarea()
    {
        system.out.println("Area is" + (a*b*0.5));
    }
}
```

```
class circle extends shape
{
    circle(int x)
    {
        a = x;
    }
    void printArea()
    {
        System.out.println("Area is "+(a*a*3.14));
    }
}

class lab4
{
    public static void main(String ss[])
    {
        int l, b, ba, h, ra;
        Scanner sc = new Scanner(System.in);
System.out.println("enter the length & breadth
                    of rectangle");
        l = sc.nextInt();
        b = sc.nextInt();
        Rectangle r = new rectangle(l, b);
        r.printArea();

System.out.println("enter base and height
                    of triangle");
        ba = sc.nextInt();
        h = sc.nextInt();
    Triangle t = new triangle(ba, h);
        t.printarea();
```

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```
System.out.println("enter the radius of
                    circle");
ra = sc.nextInt();
circle c = new circle(ra);
    c.printArea();
}
}
```