

```
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 n)
```

```
    {
```

```
        a = n
```

```
    }
```

```
    void printArea ()
```

```
    { System.out.println("Area is " + a*a*3.14); }
```

```
    }
```

```
}
```

```
class Labtest1
```

```
{
```

```
    public static void main (String ss [])
```

```
    {
```

```
        int d, b, ba, h, ra ;
```

```
        Scanner sc = new Scanner (System.in);
```

```
        System.out.println ("Enter the lenght and breadth of  
rectangle ");
```

```
        d = sc.nextInt ();
```

```
        b = sc.nextInt ();
```

```
        Rectangle r = new Rectangle (d, b);
```

```
        r.printArea ();
```

```
System.out.println("println enter the base and height of  
triangle");
```

```
ba = sc.nextInt();
```

```
hex = sc.nextInt();
```

```
Triangle t = new Triangle(ba, h);  
t.printArea();
```

```
System.out.println("enter the radius of circle");
```

```
ra = sc.nextInt();
```

```
Circle c = new Circle(ra);
```

```
c.printArea();
```

```
}
```

```
}
```