

```
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));
    }
}
public 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 and breadth of rectangle");
        l= sc.nextInt();
        b= sc.nextInt();
        Rectangle r= new Rectangle(l,b);
        r.printArea();
        System.out.println("enter the base and height of triangle");
    }
}

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System.out.println("enter the base and height of triangle");  
ba= sc.nextInt();  
h= 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();
```

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}
```

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}
```

```
C:\Users\Jelani\java>java lab4
enter the length and breadth of rectangle
2 4
Area is 8
enter the base and height of triangle
3 4
Area is 6.0
enter the radius of circle
5
Area is 78.5
```