```java
package com.company;
import java.util.Scanner;
abstract class Shape{
    int a,b;
    Shape(int a,int b){
        this.a=a;
        this.b=b;
    }
    abstract void printArea();
}
class Rectangle extends Shape{
    Rectangle(int a,int b){
        super(a,b);
    }
    void printArea(){
        System.out.println("Area of the rectangle="+(a*b));
    }
}
class Triangle extends Shape{
    Triangle(int a,int b){
        super(a,b);
    }
    void printArea(){
        System.out.println("Area of the triangle="+((float) a*b)/2);
    }
}
class Circle1 extends Shape{
```

```java
21              super(a,b);
22          }
23  of      void printArea(){
24              System.out.println("Area of the triangle="+((float) a*b)/2);
25          }
26      }
27  class Circle1 extends Shape{
28      Circle1(int a) { super(a, b: 0); }
31  of  void printArea() { System.out.println("Area of the circle="+(2*3.14*a)); }
34      }
35  ▶ public class Week_8_lab4 {
36  ▶      public static void main(String[] args){
37              Scanner s=new Scanner(System.in);
38              int a,b;
39              System.out.println("Enter the values for the integers a and b:");
40              a=s.nextInt();
41              b=s.nextInt();
42              Rectangle r=new Rectangle(a,b);
43              Triangle t=new Triangle(a,b);
44              Circle1 c=new Circle1(a);
45              r.printArea();
46              t.printArea();
47              c.printArea();
48          }
49      }
50
```

```
"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
Enter the values for the integers a and b:
4

5

Area of the rectangle=20
Area of the triangle=10.0
Area of the circle=25.12


Process finished with exit code 0
```

4: Run   ≡ TODO   ❗ 6: Problems   ⤷ Terminal   🔨 Build
Build completed successfully in 2 s 155 ms (moments ago)