```java
import java.util.Scanner;
abstract class Shape {
  double a;
  double b;
  Shape(double a, double b)
  {
    this.a = a;
    this.b = b;
  }
  abstract double area();
}

class Rectangle extends Shape
{
  Rectangle(double a, double b)
  {
    super(a, b);
  }
  double area()
  {
    System.out.println("Area of Rectangle.");
    return a*b;
  }
}
```

```java
System.out.println("Area of Rectangle.");
return a*b;
}
}
class Triangle extends Shape {
Triangle(double a, double b) {
super(a, b);
}
double area() {
System.out.println(" Area of Triangle.");
return (a*b)/ 2;
}
}

class Circle extends Shape {
    final double pi=3.14;
    Circle(double a,double b) {
    super(a, b);
    }
    double area() {
    System.out.println(" Area of  Circle.");
    return pi*Math.pow(a,2);
    }
}
```

S 1 UNSAVED

● shape.java > ⚡ shapemain > ◈ main(String[])

```java
44      }
45      class shapemain
46      {
        Run | Debug
47      public static void main (String args[])
48       {
49           Scanner s=new Scanner(System.in);
50           System.out.println("ENTER LENGTH AND BREADTH OF RECTANGLE");
51           double l=s.nextDouble();
52           double b=s.nextDouble();
53      Rectangle rec = new Rectangle(l,b);
54      System.out.println("ENTER HEIGTH AND BASE LENGTH OF TRIANGLE");
55      double h=s.nextDouble();
56      double ba=s.nextDouble();
57      Triangle tri = new Triangle(h,ba);
58      System.out.println("ENTER RADIUS OF CIRCLE");
59      double r=s.nextDouble();
60      Circle c=new Circle(r,2*r);
61      Shape sh;
62      sh=rec;
63      System.out.println( sh.area());
64      sh=tri;
65      System.out.println( sh.area());
66      sh=c;
67      System.out.println( sh.area());
```

PROBLEMS 73   OUTPUT   DEBUG CONSOLE   TERMINAL

Filter (e.g. text, **/

∨ ● shape.java ①
⚠ Resource leak: 's' is never closed Java(536871799) [49, 15]
∨ ● actor.java ②
⚠ Resource leak: 's' is never closed Java(536871799) [10, 17]
⚠ Resource leak: 'ss' is never closed Java(536871799) [35, 17]

shape.java > shapemain > main(String[])

```java
60      Circle c=new Circle(r,2*r);
61      Shape sh;
62      sh=rec;
63      System.out.println( sh.area());
64      sh=tri;
65      System.out.println( sh.area());
66      sh=c;
67      System.out.println( sh.area());
68      }
69      }
```

```
 4-exit
ENTER THE CHOICE
4

c:\JAVA\bin>java shapemain
ENTER LENGTH AND BREADTH OF RECTANGLE
12
12
ENTER HEIGTH AND BASE LENGTH OF TRIANGLE
2
4
ENTER RADIUS OF CIRCLE
5
Inside of Rectangle.
144.0
 Area for Triangle.
4.0
 Area for Circle.
78.5

c:\JAVA\bin>javac Bank.java

c:\JAVA\bin>java bank
1-CURRENT ACCOUNT
2-SAVINGS ACCOUNT
```