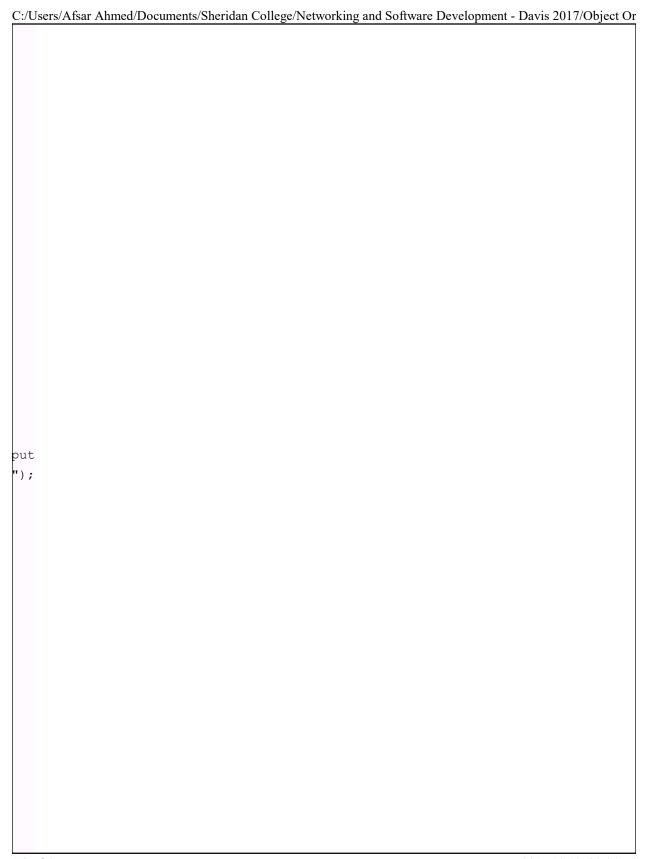
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```
1 package theshape;
 2 /**
 3 Afsar Ahmed
 4 * 991432327
 5 Assignment 2
 6 2017-09-29
 7 */
 8 import java.util.Scanner;
 9 import java.text.DecimalFormat;
11 public class TheShape{
       public static void main(String args[]){
13 Scanner sc = new Scanner(System.in);
           DecimalFormat df = new DecimalFormat("#0.00");
15
16 int num; //this variable declares the option
17 double base, height;
18
           //these variables store the dimensions of a triangle
19 double length, width;
20
           //these varaibles store the dimensions of a rectangle
21
           double areaR, areaT;
           //these variables store the calculated values based on th user's in
23 System.out.print("Enter 1 for triangle or any other integer for rectangle:
24 num=sc.nextInt();
25
26 \text{ if (num } == 1) {
27
              System.out.println("Enter tringle base: ");
28
              base=sc.nextDouble();
29
30
31
              if(base<0)
32
                 System.out.println("Base cannot be negative.");
33
34
              else{
35
                  System.out.println("Enter triangle height: ");
36
                  height=sc.nextDouble();
37
                  if(height<0)
38
                   System.out.println("Height cannot be negative.");
39
                  else{
40
                   areaT=.5*height*base;
41
                   System.out.println("Triangle area is " + df.format(areaT));
```

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```
42
43
              }
44 }
45
46 else{
47
               System.out.println("Enter rectangle length: ");
48
               length=sc.nextDouble();
49
50
51
               if(length<0)
52
                    System.out.println("length cannot be negative.");
53
54
                    System.out.println("Enter rectangle width: ");
55
56
                    width=sc.nextDouble();
                    if(width<0)
58 System.out.println("Width cannot be negative.");
59
                   else{
60
                    areaR=length*width;
61
              System.out.println("Rectangle area is " + df.format(areaR));
62
63
               }
64
             }
65
66 }
```

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