C:/Users/luish/Documents/NetBeansProjects/Assignment1v3/src/assignment1v3/Assignment1v3.java

```
1 /**
   * @author Luis Hung
   * @since 2-19-2022
   * @version 3.0 Description: This assignment is suppose to calculate
 5 * the area, semi-perimeter and hypotenuse of the triangle. When
 6 * completing the project I struggle when there are errors and fixing
 7 * it.For example when I tried running one of my projects it would
   * have an error saying it couldn't load main file or something like that
 9 * and I would create a new project for it to work. I believe that the
10 * template given for birthdays helped a lot. The template basically
11  * guided me on what to do and without it I would've forgotten a lot
12 * of things.
13 */
14 package assignment1v3;
15
16 import java.io.PrintStream;
17 import java.util.Scanner;
18
19 public class Assignment1v3 {
20
21
       public static void main(String[] args) throws Exception {
22
           double length, width, hypotenuse, semiperimeter, area;
23
24
           Scanner sc = new Scanner(System.in);
25
           PrintStream ps = new PrintStream("printout.txt");
26
27
           promptUser();
28
29
           length = sc.nextDouble();
30
           while (length > 0) {
31
               width = sc.nextDouble();
32
33
               hypotenuse = Math.sqrt((length * length) + (width * width));
34
               semiperimeter = ((length + width + hypotenuse) / 2);
35
               area = Math.sqrt(semiperimeter * (semiperimeter - length)
36
                   * (semiperimeter - width) * (semiperimeter - hypotenuse));
37
38
               System.out.printf("When length is %.1f and width is %.0f the "
39
                       + "hypotenus is %.2f while the semiperimeter is %.2f "
                       + " and the area is %.2f%n%n",
40
41
                       length, width, hypotenuse, semiperimeter, area);
```

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```
42
43
               ps.printf("When length is %.1f and width is %.0f the "
44
                       + "hypotenus is %.2f while the semiperimeter is %.2f "
                       + " and the area is %.2f%n%n",
45
                       length, width, hypotenuse, semiperimeter, area);
46
47
               // I struggled trying to print the output into a file and I
               //realized my mistake of putting ps.printf instead of
48
49
               //ps.println.
50
51
               // I included the semiperimeter answer for the output because
52
               //when I removed it the area would be incorrect
53
               // and the answer for my area would be the semiperimeter
54
               promptUser();
55
56
               length = sc.nextDouble();
57
           }
58
59
60
       public static void promptUser() {
61
           System.out.println("Please enter length and width");
62
           System.out.println("Enter two zeros to stop");
63
64
65 }
```

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