

## src/Problem1.java

```
1  /*
2  Name: Hunter Poole
3  Date: 3/26/25
4  HW #: 7
5  Problem #: 1
6  Source Code: Problem1.java
7  Action: Takes the total number of seconds from the user.
8           Calls a method to calculate and display HH:MM:SS
9           for all input > 0. Quits on input == 0.
10 */
11
12 import java.util.Scanner;
13
14 public class Problem1
15 {
16
17     /*
18     Action: Given # of seconds, calculates and prints HH:MM:SS
19     Parameters: int X
20     Returns: void
21     Precondition: Input must be > 0.
22     */
23
24     static void TimeCalculator(int X)
25     {
26         int Hours, Minutes, Seconds;
27
28         if (X > 0)
29         {
30             Hours = X / 3600;
31             Minutes = (X % 3600) / 60;
32             Seconds = (X % 3600) % 60;
33
34             System.out.printf("%d:%02d:%02d\n\n", Hours, Minutes, Seconds);
35         }
36     }
37
38     public static void main(String[] args)
39     {
40         int TotalSeconds;
41
42         Scanner Input = new Scanner(System.in);
43
44         do
45         {
46             System.out.print("Enter Total Seconds --> ");
47             TotalSeconds = Input.nextInt();
```

```
48
49     TimeCalculator(TotalSeconds);
50     } while (TotalSeconds != 0);
51 }
52 }
53
54 /*
55 Enter Total Seconds --> 3605
56 1:00:05
57
58 Enter Total Seconds --> 7458
59 2:04:18
60
61 Enter Total Seconds --> 350
62 0:05:50
63
64 Enter Total Seconds --> -40
65 Enter Total Seconds --> 0
66 */
```