

HW3\src\Problem_3.java

```
1  /*
2  Name: Hunter Poole
3  Date: 2/10/25
4  Homework #: 3
5  Problem #: 3
6  Source File: Problem_3
7  Action: For two numbers -180 to 180, display product and division of two numbers.
8          Division will show quotient and remainder.
9  */
10
11 import java.util.Scanner;
12
13 public class Problem_3 {
14     public static void main(String[] args)
15     {
16         Scanner Input = new Scanner(System.in);
17         System.out.print("Enter two integers between -180 and 180 --> ");
18         int Num1 = Input.nextInt();
19         int Num2 = Input.nextInt();
20
21         int Product = (Num1 * Num2);
22         int Quotient = (Num1 / Num2);
23         int Remainder = (Num1 % Num2);
24
25         System.out.printf("%4d %6d %s %d %n%s %d %13s %n%s %3d|%d %n%4d",
26                           Num1, Quotient, "R", Remainder,
27                           "x", Num2, "_____", "-----",
28                           Num2, Num1, Product);
29     }
30 }
31
32 /* Decided not to validate input between -180 and 180.
33
34 Instructions at top of HW #3 specify to assume
35 user enters legal data for all programs.
36
37 Instructions in problem #3 specify to test for input
38 in range -180 to 180.
39
40 Assuming assignment-wide (global?) instructions take
41 precedence over problem-wide instructions.
42
43 Otherwise, would use if statement:
44     if ((Num1 >= -180 && Num1 <= 180) && (Num2 >= -180 && Num2 <= 180))
45     {
46         printf, so on and so forth.
47     }
```

```
48 */
49
50 /*
51 Enter two integers between -180 and 180 --> 125 34
52   125      3 R 23
53 x 34      _____
54 ----- 34|125
55 4250
56
57 Enter two integers between -180 and 180 --> 157 16
58   157      9 R 13
59 x 16      _____
60 ----- 16|157
61 2512
62 PS C:\Users\hunte\Documents\GitHub\155-W3-H3>
63 */
```