src/Problem2.java

```java
/*
Name: Hunter Poole
Date: 3/5/25
HW #: 6
Problem #: 2
Source Code: Problem2.java
Action: Takes two user integers and a user math operand.
        Performs the specified operation between the two
        numbers. Provides the formula used. Loops until
        N is entered.
*/

import java.util.Scanner;

public class Problem2
{
    public static void main(String[] args)
    {
        char Operand;
        int X, Y;

        do
        {
            Scanner Input = new Scanner(System.in);

            System.out.print("Enter your first number: ");
            X = Input.nextInt();

            System.out.print("Enter your second number: ");
            Y = Input.nextInt();

            System.out.print("Enter your math operand. N to quit: ");
            Operand = Input.next().charAt(0);


                switch (Operand)
                {
                    case '+':
                        System.out.printf("%d %s %d %s %d %n%n", X, "+", Y, "=", (X + Y));
                        break;
                    case '-':
                        System.out.printf("%d %s %d %s %d %n%n", X, "-", Y, "=", (X - Y));
                        break;
                    case '*':
```

```
45                          System.out.printf("%d %s %d %s %d %n%n", X, "*", Y, "=", (X
   * Y));
46                          break;
47                      case '/':
48                          System.out.printf("%d %s %d %s %d %n%n", X, "/", Y, "=", (X
   / Y));
49                          break;
50                      case '%':
51                          System.out.printf("%d %s %d %s %d %n%n", X, "%", Y, "=", (X
   % Y));
52                          break;
53                      default:
54                          if (Operand != 'N')
55                          {
56                              System.out.printf("%s %n%n","Error! Please enter a valid
   math operand (+ - * / %)");
57                          }
58                          break;
59                  }
60          } while (Operand != 'N');
61      }
62  }
63
64  /*
65  Enter your first number: 4
66  Enter your second number: 6
67  Enter your math operand. N to quit: +
68  4 + 6 = 10
69
70  Enter your first number: 18
71  Enter your second number: 6
72  Enter your math operand. N to quit: %
73  18 % 6 = 0
74
75  Enter your first number: 8
76  Enter your second number: 32
77  Enter your math operand. N to quit: *
78  8 * 32 = 256
79
80  Enter your first number: 512
81  Enter your second number: 300
82  Enter your math operand. N to quit: -
83  512 - 300 = 212
84
85  Enter your first number: 44
86  Enter your second number: 11
87  Enter your math operand. N to quit: /
88  44 / 11 = 4
89
90  Enter your first number: 1
```

```
Enter your second number: 1
Enter your math operand. N to quit: D
Error! Please enter a valid math operand (+ - * / %)

Enter your first number: 1
Enter your second number: 1
Enter your math operand. N to quit: .
Error! Please enter a valid math operand (+ - * / %)

Enter your first number: 1
Enter your second number: 1
Enter your math operand. N to quit: +
1 + 1 = 2

Enter your first number: 1
Enter your second number: 1
Enter your math operand. N to quit: N
 */
```