Option #1

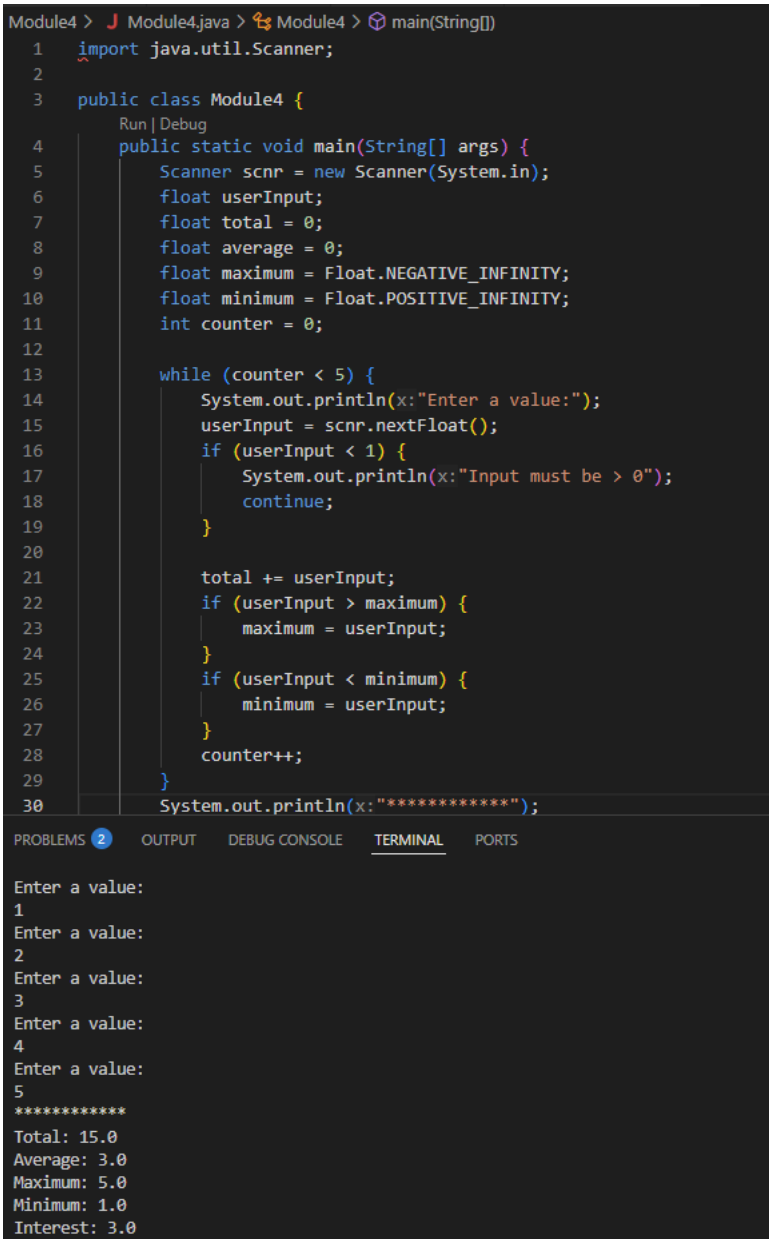
Pseudocode:

```
Class Module4

    INITIALIZE total to 0
    INITIALIZE average to 0
    INITIALIZE maximum to NEGATIVE_INFINITY
    INITIALIZE minimum to POSITIVE_INFINITY
    INITIALIZE counter to 0

    WHILE counter < 5 DO
        PROMPT user to enter a number
        READ userInput

        IF userInput < 1 THEN
            OUTPUT "Input must be > 0"
            CONTINUE to next iteration
        END IF

        ADD userInput to total

        IF userInput > maximum THEN
            SET maximum = userInput
        END IF

        IF userInput < minimum THEN
            SET minimum = userInput
        END IF

        INCREMENT counter by 1
    END WHILE

    OUTPUT "**********"
    OUTPUT "Total: " + total
    SET average = total / 5
    OUTPUT "Average: " + average
    OUTPUT "Maximum: " + maximum
    OUTPUT "Minimum: " + minimum
OUTPUT "Interest: " + (total * 0.2)
```

Source Code:

```
import java.util.Scanner;

public class Module4 {
   public static void main(String[] args) {
      Scanner scnr = new Scanner(System.in);
      float userInput;
      float total = 0;
      float average = 0;
      float maximum = Float.NEGATIVE_INFINITY;
      float minimum = Float.POSITIVE_INFINITY;
      int counter = 0;

      while (counter < 5) {
         System.out.println("Enter a value:");
         userInput = scnr.nextFloat();
         if (userInput < 1) {
            System.out.println("Input must be > 0");
            continue;
         }

         total += userInput;
         if (userInput > maximum) {
            maximum = userInput;
         }
         if (userInput < minimum) {
            minimum = userInput;
         }
         counter++;
      }
      System.out.println("**********");
      System.out.println("Total: " + total);
      average = total / 5;
      System.out.println("Average: " + average);
      System.out.println("Maximum: " + maximum);
      System.out.println("Minimum: " + minimum);
      System.out.println("Interest: " + total * 0.2);

   }

}
```

Screenshot of application execution



Git Repository

https://github.com/ac-potts/CS320_CritThinking/tree/main/Module4