Lab #5 (10 points)

1. Consider the code below. The program is intended to produce the sum of the even numbers between 2 and 20. It doesn’t work. The output should be:

\[
2+4+6+8+10+12+14+16+18+20=110
\]

```java
public class NumSum {
    public static void main(String [] args) {
        int num = 2;
        while (num < 20)
            num += num;
        System.out.print(num);
        if (num <= 20)
            System.out.print(“+”);
        else
            System.out.print(“=”);
        num++;
        System.out.println(num);
    }
}
```

Make changes so that the program works as intended. Note: Your changes should involve a loop and selection structures; no credit will be given for a statement like: System.out.println (“2+4+6+8+10+12+14+16+18+20=110”);

2. Write a program that computes the sum, average, minimum and maximum of a series of integers entered by the user. Your program should continue to ask for and receive input until the user signals a desire to quit, then the program should display its results. Print a copy of your source code to turn in. A sample run of the program might look like the following:

Enter a number (or Q to quit): 14
Enter a number (or Q to quit): 9
Enter a number (or Q to quit): 25
Enter a number (or Q to quit): 3
Enter a number (or Q to quit): 6
Enter a number (or Q to quit): Q

The sum of the numbers is: 57
The average is 11.4
The minimum value was 3
The maximum value was 25