COUNTER CONTROLLED LOOP

```
//Genesis Grant, CTEC 120, CW1 Week 8, Counter Controlled While Loop Program
import java.util.*;
public class Main {
    static Scanner input = new Scanner (System.in);
   public static void main(String[] args) {
        //Declaring variables
        int number;
        int counter = 0; // loop control variable
        int sum = 0;
        //Beginning counter controlled loop
       while (counter < 5)</pre>
        { //begin counter while
            //Getting user numbers
            System.out.println("Please enter a number: ");
            number = input.nextInt();
            //Finding sum
            sum = sum + number;
            //Updating loop control variable, counter = counter + 1
            counter++;
        }//end counter while
        System.out.println("Sum = " + sum);
   }
```

SENTINEL CONTROLLED LOOP

```
//Genesis Grant, CTEC 120, CW1 WEEK5, SENTINEL CONTROLLED WHILE LOOP
import java.util.*;
public class Main {
   //variables that will not change throughout the program
    static Scanner input = new Scanner(System.in);
   static final int SENTINEL = -999;
   public static void main(String[] args) {
        //Declaring variables
        int number;
```

```
int sum = 0;
        int counter = 0;
        //Instructing user and getting input
        System.out.println("Please enter as many numbers as you'd like and we will find
the sum.");
        System.out.println("When you are finished inputting numbers, enter -999: ");
        number = input.nextInt();
        //Begin Sentinel Controlled loop
       while(number != SENTINEL)
            sum = sum + number;
            //Updating loop control variable
            System.out.println("Enter a number: ");
            number = input.nextInt();
            //How many times user entered a number
            counter++;
        System.out.println("You entered " + counter + " numbers.");
        System.out.println("The sum of the values you entered is: " + sum);
   }
}
```