**Lab 11 – Java**

**Due Start of Class April 7th, 2016**

Submit the **.java file** to D2L. **Do NOT submit the .class file!**

**Lab (25 points)**

1. Find the sum of 15 to 337, inclusive, using a for loop. (2 pts)
2. Do problem 1 using a while loop. (2 pts)
3. Using an if statement only, determine if a grade is below 70. If it is, display “Grade is below 70. The actual grade was xx.” Where xx is the actual grade value. Use a hard-coded grade value of your choosing. (2 pts)
4. Using an if statement with an else clause, determine if a grade is below 70. If it is, display “Grade is below 70.”. If it is at least 70, display “Grade is a C or better”. (2 pts)
5. Using an if statement with the appropriate else if or else clauses, determine if a number if positive, negative or equal to zero. Display an appropriate message for each case. (3 pts)
6. Using a for loop, display all odd numbers between 2 and 21, inclusive. (3 pts)
7. Populate an array with the numbers 6, 11.7, and 10 (you may use any technique you wish). Find and display the average. (3 pts)
8. Populate an array **using a for statement**, with the numbers 1 through 101. Calculate the sum of the numbers by processing the array **with a for statement**. Display the sum. (4 pts)
9. Use the range of numbers from 9 through 1497 within a for statement. Display all numbers divisible by 11. In addition, after the for statement, display a count of the total numbers found that were divisible by 11. (4 pts)