**Unit Testing Lab**

Design the below unit tests

Test 1: Design a test in which loop body shouldn’t execute at all (i.e. zero iterations)

Test 2: Design a test in which loop–control variable be negative (Negative number of iterations)

Test 3: Design a test in which loop iterates only once

Test 4: Design a test in which loop iterates twice

Test 5: Design a test in which loop iterates certain number of times, say m where m < maximum number of iterations possible

Test 6: Design a test in which loop iterates one less than the maximum number of iterations

Test 7: Design a test in which loop iterates the maximum number of iterations

Test 8: Design a test in which loop iterates one more than the maximum number of iterations

Consider the below code example which applies all the conditions specified.

public class SimpleLoopTest {

private int[] numbers = {5,-77,8,-11,4,1,-20,6,2,10};

/\*\* Compute total of positive numbers in the array

\* @param numItems number of items to total.

\*/

public int findSum(int numItems)

{

int total = 0;

if (numItems <= 10)

{

for (int count=0; count < numItems; count = count + 1)

{

if (numbers[count] > 0)

{

total = total + numbers[count];

}

}

}

return total;

}

}