COMP 1603 - Tutorial/Lab 8

- 1. Write a function isBalanced which utilizes a stack to determine whether or not a given infix expression entered at the keyboard into a string expr (without spaces) has mismatched brackets.
- 2. Stack 7 integers in a stack of integers using the linked stack approach. pop each integer and return the sum of all f(x) for each integer x. f(x)=2x+1.

3.

- a) A queue is required to hold a maximum of 10 integers. You are required to implement the Queue using arrays. Also implement the important functions which play a vital role in inserting and deleting elements and checking to see whether the queue is empty or full.
- b) Using the created functions, enqueue three numbers onto the queue.
- c) Remove two numbers and determine if their product is an even number.
- d) Attempt to remove two more numbers. What happens in this case?
- 4. Adjust Q3. Since the queue is empty, reload it with 10 ints. Dequeue and print all the values. While dequeuing, store all the multiples of 5 in an array. Reload the queue with all the multiples of 5 from the array. Print the new queue elements.

END OF LAB