

# CSC 2111 Lab 20

## Objectives:

1. Implement a basic recursive function

## Question 1:

Implement a recursive function that counts the number of occurrences of a character in a string. The function declaration must be:

```
/*
 * Returns the number of occurrences of n in the string
 * str, starting a position idx of str.
 */
int freq(string str, int idx, char n)
```

Use the newly defined function in a new program that prompts the user for a string and a character to look for in that string. No looping structure is allowed inside `freq` function.

## Example 1:

The output should match the example below.

```
Please input a string: ThisIsAString
Please input a character to count: i
i occurs 2 times in a string of characters
```