## CSC301 Assignment #4

Write functions for the following specifications.

For each problem, paste in your SML function definition (text that can be copied and pasted to try out your code) and a screen shot of your program running with some example data. Submit a PDF of this document.

Handwritten programs are not accepted!

## Problem

Write a function max3 of type int\*int\*int -> int that returns the largest of three integers.

## **Problem**

Write a function *second* of type 'a list -> 'a that returns the second element of a list. Your function need not behave well on lists with less than two elements.

## Problem

Write a function *permute* of type 'a list -> 'a list whose output list is the same as the input list, but with the first two elements of the list swapped.

For example: permute ([1,2,3,4]) should return [2,1,3,4] or permute(["a","b","c"]) should return ["b","a","c"]

Your function should work with lists of any length.