

# THE UNIVERSITY OF WESTERN ONTARIO

DEPARTMENT OF COMPUTER SCIENCE  
LONDON CANADA

## *Software Tools and Systems Programming* (Computer Science 2211b)

### *LAB 6*

The week of October 22-26, 2018

The lab exercise are taken from assignment 3, from programming projects 7 in Chapter 5 and programming projects 8 in Chapter 6 of our textbook: C programming language: a modern approach (second edition), by K. N. King.

1. In assignment 3, we are to write a program to evaluate simple arithmetic expression using two recursive functions, **float m\_exp(float, char);** and **float s\_exp(float, char);**. Write **float m\_exp(float, char);** function to evaluate arithmetic expression with \* and / operators only.

*Please check “Brief Guide to Completing Assignment 3”.)*

2. Chapter 5, programming project 7, pp. 96.

*Write a program that finds the largest and the smallest of four integers entered by user:*

**Enter four integers: 21 43 10 35**

**Largest: 43**

**Smallest 10**

*Use as few if statement as possible. Hint: four if statements are sufficient.*

*How many comparisons do we need to find the largest and the smallest of  $2n$  integers?*

3. Chapter 6, programming project 8, pp. 123.

*Write a program that prints a one-month calendar. The user specifies the number of days in the month and the day of the week on which the months begins:*

**Enter number of days in month: 31**

**Enter starting day of the week (1=Sun, 7=Sat): 3**

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		