

**ETE 1151L****Laboratory # 7**

Objectives: This lab is designed to enforce the concept of functions. The students will learn about:

- Writing functions.
- Tracing through a program.
- Passing the parameters to functions.
- Writing functions to return data.

Laboratory: Write the following two programs using functions to perform the task:

Program 1:

Write a program that inputs three coefficients of a quadratic equation and then calls a function that prints the roots of the equation. The functions should print the roots for all three possible cases.

Problem 2:

Write a function that evaluates e^x as $1.0 + x / 1! + x^2 / 2! + x^3 / 3! + \dots + x^n / n!$. Write a main program where user inputs number of terms and value of x and passes to the function. The function evaluates e^x and returns the result to the main program where it is printed. The main program should use a sentinel loop to call the function several times.

Write both above described programs, compile and execute them and show the result to your instructor. Report is required for this laboratory to be submitted on CANVAS.