Sohag University
Faculty of Engineering
Electrical Engineering Department

Programming Languages
1st Year

LAB 0

1. Write a program to compute the total and average of four numbers entered by the user.

2. Update program 1 to compute the summation and average of n numbers determined by the user.

3. Write a program to raise any number X to power N.(Note: without using pow() function)

4. Write a C++ function that take 3 float numbers and return the largest one.

5. Write a program with a function named "is_prime" that takes a positive integer, returns 'T' if it is a prime and returns 'F' otherwise.(Notice: A positive integer n is said to be "a prime number" if and only if n is greater than 1 and is divisible only by 1 and n.)

6. Write a C++ program that perform the following:
   a) asks the user to type 5 integers and store them in an array
   b) ask the user again to enter an integer x.
   c) display "x exist" if x is found in the array otherwise print"x Not exist!".

7. Write a C++ program that perform the following:
   a) ask user to Enter 5 integers and store them in an array.
   b) copy all the elements in another array but in reverse order.

8. Write a C++ program that allow the user to Enter a 2D array of 3*3 matrix and Check if the matrix is symmetric or not.

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