Computer Organization and Assembly Languages
Lab 12

Instructions:

- Work on this lab individually. Discussion is not allowed.
- Evaluation of tasks will be conducted in lab.
- Anyone caught being indulged in the act of plagiarism would be awarded an "F" grade in this lab.

Task 01: **[10 M]**

Write a procedure that takes input (1-9) from user until enter carriage return finds the maximum from the list of number.
Sample execution:
Enter Input: 2 1 2 3 4 5
Output: 5

Task 02: **[15 M]**

Write a program to check whether an expression entered by user is correct or incorrect. The expression is correct if:
(a) There are the same number of left and right brackets of each kind
(b) When a right bracket appears, the most recent preceding unmatched left bracket should be of the same type.

Sample Output:

Enter an expression: [1+ 2*(4/2)+8]
The expression is correct

Enter an expression: [1+ 2*(4/2[+8)]
The expression is incorrect

Task 03: **[15 M]**

Write a program that prompts the user to enter a number (using decimal input), and output whether it is a prime or not. If the user enters an illegal character, the program should exit with proper message.
Sample execution:
ENTER A NUMBER: 31
OUTPUT: It is Prime

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