
The LNM Institute of Information Technology

Computer Science and Engineering

COA Laboratory (CSE216)

Assignment: 1

1. WAP in assembly code to evaluate the following expression, here A, B, C, D, E, F, G, H and I are memory location. Assume values for these location. Also evaluate the same expression using STACK.

$$\frac{(A+B) \times (C+D)}{E - (F \times G) + (H \times I)}$$

(Hint: PUSH and POP instructions are used to enter or remove values from the STACK respectively. When you encounter any binary operator in the expression, perform 2 POP operation, use the respective instruction and PUSH the result back to STACK)

2. Write assembly code to multiply all the EVEN numbers between 1 and value stored in a memory location and display the result at the output port.