Assignment #01

Data Structures CS218

<u>Note:</u> The submission deadline is 21st March 2020. In case of plagiarism in any question, straight zero marks will be assigned for the complete assignment.

Total Marks: 30

Question#01: Reverse the order of elements on stack S

a. using two additional stacksb. using one additional queue

Question#02: Given an infix expression $(A+B^C)*D+E^5$. Your task is to covert the given expression into prefix notation. The final result should be $+*+A^BCD^E5$. (Note: Make use of stack data structure only. However the underlying implementation should be an array).

Question#03: Given an infix expression 2*3/(2-1)+5*3. Your task is to convert the given expression in to postfix notation. The final result should be 23*21-/53*+. Evaluate the resultant postfix notation and show the final result. The final result should be 21. (Note: Make use of stack data structure only. However the underlying implementation should be an array).

Good Luck ©