SNS COLLEGE OF ENGINEE!

Kurumbapalayam(Po), Coimbatore – 641 107 Accredited by NAAC-UGC with 'A' Grade Approved by AICTE, Recognized by UGC & Affiliated to Anna Univer

Department of Artificial Intelligence and

Course Name: 23ITB201 Data structures a

II Year / III semester

Unit II – Stack and Queue AD7

Topic: Evaluating Postfix Express

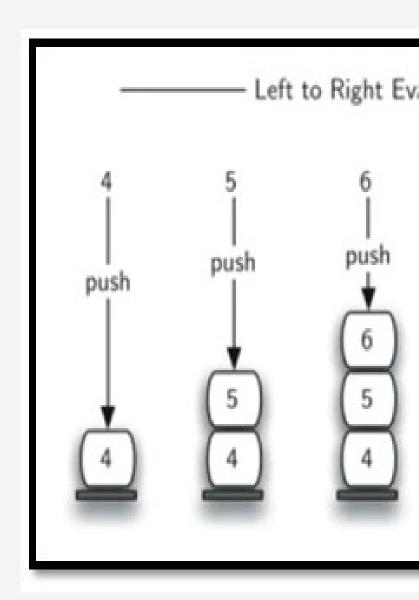
le of a Postfix Expression:

ng the expression from left to right, push the element in the state operands from the stack, if the element is an operator and then

ne result of the evaluation. Repeat it till the end of the expressi

: 456*+

Operation	Stack	Calculation
Push	4	
Push	4,5	
Push	4,5,6	
Pop(2 elements) & Evaluate	4	5*6=30
Push result(30)	4,30	
Pop(2 elements) & Evaluate	Empty	4+30=34
Push result(34)	34	
o-more elements(pop)	Empty	34(Result)



- C -B A + C for A = 1, B = 2 and C = 3 + *4 1 5 - /-+ * 8 4