





ion to prefix or postfix form.	apilers - Compilers use the	se order.	order of stack you will get the letters in	put ou the letter	= Applications of Stack Data Structure,	with Example.	Q-2 Write down the application of Stack?	Top is decremented by 1, i.e top = top-1,	the top operation is p	bich is point	. If the Stack is not empty, we first access	dition occurs.	Stack, then the undertile	. It we try to delete the element which		Stack, we check wheather the Stack is em-	The state of the s	in the	reach the mase Size of the Stack.	• the elements will be inserted until we	placed at the new position of the top.	190	value of the top gets in	· when the new element is pushed in a stack	Onto Page
elements is unknown.	it is Conventient to use a linked		の十つでで	Node Data Next		Node Data Next		Node Data Next	top v Noae Wata X		ediate Successor node	Each node Contains a painte	s are maintained non- Con	list implementation of Sta	= Array and linked representation of stack:	Q-3 Emplain the Representation of Stack using Linked-list		Night Island Season	is removed from the Stack	press the back button, the	is added on top of the Stack	a Stack. Each time you visit a		the back builder in	Order Page

Example of Infix to Postfix Conversion Trafix Expression: A + (B*C+D)/E	1 4	Li Tali	the operand. Jet the form (operator operan	ression if the operator appears in the expressions	Q-41 Emplain the Conversion of Infix empression to post	POP 5 NULL 7	5 + + 7	PUSH 7 5 • → 7 + · · · · · · · · · · · · · · · · · ·	PUSH 5 5 Null	Dane SSIN
- A postfix expression is a collection of opera () tars and operands in which the operator is placed after the operands that means, is in a postfix expression the operator fall-F aws the operands. P P	Q-5 Explain the Conversion of Evalutation A of postfix Expression with the example?	pression String pression String pression String	and pop all) + ABC*It) has higher precedence than + so push / inta	exp	HBC* (+) ope	B + (AB Add B into expression String * + (* AB Push "* into Stack	H H add A into expression string + + H push (into stack C + C A Push (into stack	Input Stack Post Expre- Action Token Ssion	Date

As final result	
	8 (5+3)
of result = bob()	2019
A Display (result)	push (8)
	alue2+ Presult =
(5+3)*(8-2)	value 2 = pop () value 2 = pop (); 1/5
	+ value 1 = pop C) value 1 = pop C) //3
Push (48)	(J)
$=$ value) $=$ \times	W
= pop ();	TOTAL STORY
\star value 1 = popc) value 1 = popc); //6	20+5:00
	3 Push (3)
0	U
(5+3)	
(8+3)	
push (result), push (68)	5 push (5) Nothing
= value 2 + value 1	
value $2 = pop(c)$ value $2 = pop(c) / 1/8$	001848
- value 1 = Pop () value 1 = pop(); 1/2	Initially Stack is empty Nothing
	Symbol operations of Expression
8	Reading Stack Evaluated part
00	10.0
2 (5+3)	_
	The Transfer Transfe
2 push (2)	• example,
0.9	Ja bet
00	·
	Operand 1 operand 2 operator
	# 11 E331011 11W
2 Prish (8) (5+3)	pact fix thorogeneral fallowing general
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) Date	Date