HOME - ASSIGNMENT - 1

Show the Detail concept of the stack to Evaluate the Following Positive Expression;

Gainen.

63% -5 + 1 17+

Algorithm	:	To evaluate a post-fix expression.
Step 1		Input is a post-fix expression.
श्रीक द		Read the Expression from Left to Right.
Step 3		If operand is encountered more to the stack.
Step 4		
		If operator is encountered POP() for & Times, & spally the operator and move the Result to stack.
Step 5		Continue the process, until the End of Expression
step 6		
		output is post-fix value.

Evaluation: 632 - 5 * # 1 17 + @

Read	Stack	computation
-		At very Beginning Stack is Empty.

1			
	6	6	Einee 6 is an openand, It moves into a stack
	3	3 6	Since 3 is an operand, It moves into a stock
	2	3 6	Stree es is an openand, It moves ento a Stock
		8 3 6	operator is encountered apply Pop() & Times VI = Pop(); V2 = Pop() Push (V2-V1) into stack
	5	5 1 6	Since 5 is an openand. It moves into a stack
	*	5 5 6	operator is encountered Apply POP() & Times, V1 = POP(); Vx = POP() Push (Vx * V1) into a stack.
	+	5 => 11	operator is encountered Apply POP() & Times, V, = POP(); Vo = POP(); Push(V2+V1) into dack
-	1	1	Since 1 is an operand, It moves into a Jack.

^	1 11	operator is encountered Apply POP() & Trimes, v, = POP(); Vx = POP(); push (ve ^v,) into a stack
7	7	Strice 7 is an operated strick on over into a stack.
+	7 18	operator is encountered Apply POP() & Times, $V_1 = POP(); V_E = POP();$ push ($V_E + V_i$) into a stack.

RESULT: Post - Evaluation value: 18

:. 632 - 5 * + 1 ¹ 7 + = 18