Experiment 4

Aim: Write a program to convert infix to postfix expression.

Lab outcome:

select appropriate data structure and apply it in various problem.

Practice Question.

1. What is reverse polish notation.

Polish notation is away of expressing arithmetic expressions that avoids use of brackets to define priorities for evaluation for of operations.

Types of notation.

- + 1. Prefix
 - 2. Infix
 - 3. Postfix.

Postfix Creversed polish) notation

Ttis the way to write art arithmetic expression
in which operators are placed after operands

Example

96+

az. convert infix to postfix.

(A-B) *+ C*D/E-C		
(A-B)	+ CC*D) / E-C	
Character	stack	Postfix
from infix		
(C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A	C	A
-	(-	A
В	(-	AB
)	C	AB-
+	C	AB-
C	C*C	AB-
С	C*C	AB-C
*	C * C *	AB-C
D	C*C*	AB-CD
)	C*	AB-CD*
/	CI	AB-CD*
E	Cl	AB-CD*
-	C-	AB-CD*E/
C	C	AB-CD+E/C
	-	AB- CD* E/C-
-		

Equivalent postfix expression is.

AB-CD*E/C-