Page No. 4 Sneha Sxivastava Expt. No. (1BM19 CS158) LAB PROGERAM-2:-WAP to convext a given valid parenthesized infix arithematic expression to postlix expression. The expression consists of single character operands and the binary operators + (plus), - (minus), \* (multiply) and / (divide). # include (stdio.h) # include (string.h) int F (char symbol) snitch (symbol) case '- ' neturn 2; case 11: netwen 4; case 1\$': return 5; case C': return 0; case case 1#" return -1; default: return 8; int Gr (char symbol) Teacher's Signature: \_

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```
smitch (symbol)
  case '- ': return 1 ;
 case 1/: return 3;
 case 'A1:
 case '$': Ketwen 6.
 case '(': return 9;
 case ')': return 0;
 default: return 7:
3
void injix - postfix (char injix [], char postfix [])
  int top, i, j;
   char s [30], symbol;
   top = -1;
s [++ top] = 1#';
   for (1=0; i(strlen (infix); i++)
    symbol = injix [i];
while (F(s[top])) G(symbol))
      postlix[j]=s[top--];
                                   Teacher's Signature:
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Teacher's Signature: \_

## OUTPUT: -

(1BM19CS158)

print ("In DELETED ELEMENT 15 "Ld" stack [top ]).

Enter the valid infix expression: (a+b) + (c-d) \* (elf)
The postfix expression is:

ab+ cd - \*ef/\*

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Wight ("IN STACK IS EMPTY");