## LAB-3

Date 5th out, 2020.

VEDIKA DALMIA, IBMI9CSI81 WAP to convert unfix to postfix using Stack concepts convert a given valid parenthesized unfix arithmetic expression to postfix exp. The expression consists of single character operands and the binary operators + (plus), - (minus), \* (multiply) and / (divide). # define size 50 char emp [size]: and recorded CONVERT\_INFIX\_TO\_POSTFIX (EXP) CREATE STACK S; for (i=0 to length (exp)-1) if (exp[i] in operand)

res = res + exp[i];

else if (exp[i] == operator) while (IS. EMPTY () & HASHIGHERPRIOR (S. TOP () res = res + s. top(). s. pop () s. push (exp[i]) else if ( ISOPENING PAR(EXP[i])) S. Push (exp[i]); elseif (ISCLOSINGPAR (exptis)) while ( ! S. EMPTY ( ) & & I ISOPENING PAR (S. TOPC)

Re res = res + s.top();

s.pop()

T

Vedika Dalmia; IBM19CS181 S. pop().
J. Helse if while ( IS. EMPTY()) res = res +s. top () s. pop () return res;