```
/**********
* * *
Athul Sabu
                                               postfix[j] = ' \ 0';
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2025-07-23
         *********
*****/
                                               int S2[32];
/***********
                                               int top =-1;
                                               int i = 0;
                                               int a,b;
ATHUL SABU
ROLL NO 20
                                               char ch;
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         ********
*****/
                                               S2[++top] = ch -
#include<stdio.h>
                                               else{
#include<ctype.h>
                                               a = \hat{S}2[top--];
#define SIZE 100
char stack[SIZE];
                                               b = S2[top--];
int TOP = -1;
                                               switch(ch){
void push(char c){
if (TOP == SIZE-1)
return;
else {
TOP++;
stack[TOP] = c;
char pop(){
if (TOP ==-1)
                                               return result;
return '\0';
                                               void main(){
else{
char c = stack[TOP];
TOP--;
                                               scanf("%s", infix);
return c;
int precedence(char c){
if (c=='^') return 3;
else if (c=='*' | c=='/') return 2;
else if (c=='+' | c=='-') return 1;
                                               *****
else return 0;
                                               space) : (3+2)*5
void infixToPostfix(char infix[], char po
stfix[]){
                                               Postfix exp : 32+5*
char ch ;
                                               result = 25
int i = 0, j=0;
for(i=0; infix[i] !='\0'; i++){
ch = infix[i];
if(isdigit(ch))
postfix[j++] = ch;
else if (ch=='('){
                                                (3*3)_{2}
push(ch);
else if (ch ==')'){
char popedChar = pop();
                                                result = 32765
while(popedChar !='('){
postfix[j++] =popedChar;
popedChar = pop();
else {
while( TOP!=-1 && precedence(stack[TOP])
==precedence(ch)){
postfix[j++] = pop();
push(ch);
```

```
while (TOP !=-1) {
postfix[j++] =pop();
int evalPostfix(char postfix[]){
while((ch=postfix[i++]) != '\0'){
case '+': S2[++top] = b+a; break;
case '-': S2[++top] = b-a; break; case '+': S2[++top] = b*a; break; case '/': S2[++top] = b/a; break;
int result = S2[top];
char postfix[SIZE] ,infix[SIZE];
printf("Enter the infix value (don't ente
r white space) : ");
infixToPostfix(infix, postfix);
printf("\nPostfix exp : %s\n", postfix);
int result = evalPostfix(postfix);
printf("result = %d\n", result);
Enter the infix value (don't enter white
********
/*************OUTPUT***********
 Compiled successfully. Press ■ Run.
 Enter the infix value (don't enter white
 space) : (3*3)_2(3*3)_2
Postfix exp : 33*2_
```