```
/********
                                                       while(TOP !=-1){
Athul Sabu
                                                       postfix[j++] =pop();
// 20
                                                       postfix[j] = '\0';
// 2025-07-23
*********
/***********
                                                       int evalPostfix(char postfix[]){
ATHUL SABU
                                                       int S2[32];
                                                       int top =-1;
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                                                       int i = 0;
*****************
                                                       int a,b;
#include<stdio.h>
                                                       char ch;
                                                       \label{linear_continuity} while((ch=postfix[i++]) != '\0'){}
#include<ctype.h>
                                                       if (isdigit(ch)){
S2[++top] = ch - '0';
#define SIZE 100
char stack[SIZE];
int TOP = -1;
void push(char c){
                                                       else{
if (TOP ==SIZE-1)
                                                       a = S2[top--];
return;
                                                       b = S2[top--];
                                                       switch(ch){
else {
TOP++i
                                                       case '+': S2[++top] = b+a; break;
stack[TOP] = c;
                                                        case '-': S2[++top] = b-a; break;
                                                       case '*': S2[++top] = b*a; break;
                                                       case '/': S2[++top] = b/a; break;
char pop(){
if (TOP ==-1)
return '\0';
else{
                                                       int result = S2[top];
char c = stack[TOP];
                                                       return result;
TOP--;
return c;
                                                       void main(){
                                                       char postfix[SIZE] ,infix[SIZE];
                                                       printf("Enter the infix value (don't enter white spa
int precedence(char c){
                                                       ce) : ");
if (c=='^') return 3;
                                                       scanf("%s", infix);
else if (c=='*' || c=='/') return 2;
                                                       infixToPostfix(infix, postfix);
else if (c=='+' | c=='-') return 1;
                                                       printf("\nPostfix exp : %s\n", postfix);
else return 0;
                                                       int result = evalPostfix(postfix);
                                                       printf("result = %d\n", result);
void infixToPostfix(char infix[], char postfix[]){
                                                       char ch ;
int i = 0, j=0;
                                                       Enter the infix value (don't enter white space) : (3
for(i=0; infix[i] !='\0'; i++){
                                                       +2)*5
ch = infix[i];
                                                       Postfix exp : 32+5*
if(isdigit(ch))
                                                       result = 25
                                                       *********
postfix[j++] = ch;
else if (ch=='('){
                                                       // OUTPUT
push(ch);
                                                       // Compiled successfully. Press ■ Run.
                                                       // Enter the infix value (don't enter white space) :
else if (ch ==')'){
                                                        (3+4)*3(3+4)*3
char popedChar = pop();
                                                       // (3+4)*3
while(popedChar !='('){
                                                       //
postfix[j++] =popedChar;
                                                       // Postfix exp : 34+3*
popedChar = pop();
                                                       // result = 21
                                                       // Enter the infix value (don't enter white space) :
else {
while( TOP!=-1 && precedence(stack[TOP]) ==preceden
ce(ch)){
postfix[j++] = pop();
push(ch);
}
```