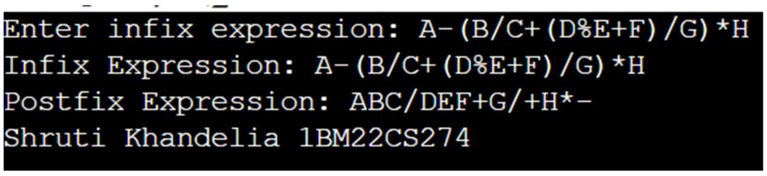
```c
#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <ctype.h>


#define MAX_SIZE 100


// Function to check if a character is an operator

int isOperator(char ch) {

   return (ch == '+' || ch == '-' || ch == '*' || ch == '/' || ch == '^');

}


// Function to get the precedence of an operator

int getPrecedence(char op) {

   if (op == '^')

      return 4;

   else if (op == '*' || op == '/')

      return 3;

   else if (op == '+' || op == '-')

      return 2;

   else

      return 1; // Default for '('

}


// Function to convert infix to postfix

void infixToPostfix(char infix[], char postfix[]) {

   char stack[MAX_SIZE];

   int top = -1;

   int i, j;
```

```
    for (i = 0, j = 0; infix[i] != '\0'; i++) {
        if (isalnum(infix[i])) {
            postfix[j++] = infix[i];
        } else if (infix[i] == '(') {
            stack[++top] = infix[i];
        } else if (infix[i] == ')') {
            while (top != -1 && stack[top] != '(') {
                postfix[j++] = stack[top--];
            }
            top--; // Pop '('
        } else if (isOperator(infix[i])) {
            while (top != -1 && getPrecedence(stack[top]) >= getPrecedence(infix[i])) {
                postfix[j++] = stack[top--];
            }
            stack[++top] = infix[i];
        }
    }

    while (top != -1) {
        postfix[j++] = stack[top--];
    }

    postfix[j] = '\0';
}

int main() {
    char infix[MAX_SIZE], postfix[MAX_SIZE];

    printf("Enter infix expression: ");
    scanf("%s", infix);
    infixToPostfix(infix, postfix);


    printf("Infix Expression: %s\n", infix);
    printf("Postfix Expression: %s\n", postfix);
    printf("Shruti Khandelia 1BM22CS274");
    return 0;
}
```



```
Enter infix expression: A-(B/C+(D%E+F)/G)*H
Infix Expression: A-(B/C+(D%E+F)/G)*H
Postfix Expression: ABC/DEF+G/+H*-
Shruti Khandelia 1BM22CS274
```