```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<ctype.h>
#include<stdlib.h>
#define max 100
char st[max];
int top=-1;
void push(char st[], char);
char pop(char st[]);
void infixToPostfix(char source[], char target[]);
int getPriority(char);
int main()
    char infix[100], postfix[100];
   gets(infix);
   strcpy(postfix," ");
   infixToPostfix(infix, postfix);
   printf("Postfix expression is-\n");
   puts(postfix);
void infixToPostfix(char source[], char target[])
   char temp;
    strcpy(target," ");
    while (source[i]!='\0')
       if(source[i] == '(')
            push(st,source[i]);
            while((top!=-1)&&(st[top]!='('))
                target[j]=pop(st);
```

```
if(top==-1)
                printf("Incorrect expression\n");
            temp=pop(st);
        else if(isdigit(source[i])||isalpha(source[i]))
            target[j]=source[i];
if(source[i]=='+'||source[i]=='-'||source[i]=='*'||source[i]=='/'||sour
ce[i]=='%')
            while( (top!=-1) && (st[top]!='(') &&
(getPriority(st[top])>getPriority(source[i])) )
                target[j]=pop(st);
            push(st,source[i]);
            printf("Incorrect element in expression\n");
    while ((top!=-1) && (st[top]!='('))
        target[j]=pop(st);
    target[j]='\0';
```

```
int getPriority(char op)
   if(op=='/'|| op=='*'||op=='%')
void push(char st[],char val)
   if(top==max-1)
      printf("Stack overflow\n");
       st[top]=val;
char pop(char st[])
       printf("Stack underflow\n");
```

PS C:\Users\kadab\OneDrive\Desktop\DS> gcc two.c
PS C:\Users\kadab\OneDrive\Desktop\DS> .\a.exe
Enter infix expression
(A-B)*(C+D)
Postfix expression isAB-CD+*
PS C:\Users\kadab\OneDrive\Desktop\DS> [

