```
#include<string.h>
    int indexnum=0,pos=0,top=-1,length;
    char symbol,temp,infix[20],postfix[20],stack[20];
    void infixtopostfix();
    void push(char symbol);
    char pop();
10
    int pred(char symb);
11
12 void main(){
13
        printf("enter infix expression:\n");
14
        scanf("%s",infix);
15
16
        infixtopostfix();
17
18
        printf("\ninfix expression:\n%s",infix);
19
        printf("\npostfix expression:\n%s",postfix);
20
21
22
   void infixtopostfix()
23 - {
        length=strlen(infix);
        push('#');
25
26
        while(indexnum<length)
27 -
        {
            symbol=infix[indexnum];
28
29
            switch(symbol)
            {
31
                case'(':push(symbol);
32
                         break;
33
                case')':temp=pop();
34
                         while (temp!='(')
```

#include<stdio.h>

```
case')':temp=pop();
                    while (temp!='(')
                         postfix[pos]=temp;
                         pos++;
                         temp=pop();
        break;
        case'-':
        case'*':
        case'/':
        case'^':while(pred(stack[top])>=pred(symbol))
            temp=pop();
            postfix[pos++]=temp;
        push(symbol);
        break;
        default:postfix[pos++]=symbol;
    indexnum++;
while(top>0)
    temp=pop();
    postfix[pos++]=temp;
void push(char symbol)
    top=top+1;
    stack[top]=symbol;
```

```
char pop()
67
68 - {
69
        char symb;
        symb=stack[top];
70
        top=top-1;
71
72
        return(symb);
73 }
74 int pred (char symbol)
75 - {
        int p;
76
        switch(symbol)
77
78 -
79
             case'^':p=3;
80
                 break;
81
             case'*':
             case'/':p=2;
82
83
                 break:
84
            case'+':
85
            case'-':p=1;
                 break;
86
             case'(':p=0;
87 -
88
                 break;
             case'#':p=-1;
89
90
                 break;
91
        return(p);
92
93
```

```
enter infix expression:
A*b^c^d+e-f
infix expression:
A*b^c^d+e-f
postfix expression:
Abc^d^*e+f-
...Program finished with exit code 32
Press ENTER to exit console.
```