```
#include<stdio.h>
 1
 2
     #include<string.h>
 3
     int F(char symbol){
       switch(symbol)
 4
 5
 6
          case '+':
 7
          case '-':return 2;
 8
          case '*':
          case '/':return 4;
 9
10
          case '^':
          case '$':return 5;
11
12
          case '(':return 0;
13
          case '#':return -1;
          default:return 8;
14
15
16
17
     int G(char symbol){
18
       switch(symbol)
19
20
          case '+':
21
          case '-':return 1;
22
          case '*':
23
          case '/':return 3;
24
          case '^':
25
          case '$':return 6;
          case '(':return 9;
26
27
          case ')':return 0;
28
          default:return 7;
29
       }
30
     void infix_postfix(char infix[],char
31
     postfix[]){
32
       int top,i,j;
       char s[30],symbol;
33
       top=-1;
34
       s[++top]='#';
35
```

```
char s[30],symbol;
33
34
       top=-1;
       s[++top]='#';
35
36
       i=0;
       for(i=0;i<strlen(infix);i++){</pre>
37
          symbol=infix[i];
38
          while(F(s[top])>G(symbol)){
39
            postfix[j]=s[top--];
40
41
            j++;
          }
42
            if(F(s[top])!=G(symbol)){
43
44
               s[++top]=symbol;
45
46
               else
47
               top--;
48
49
            while(s[top]!='#'){
               postfix[j++]=s[top--];
50
            }postfix[i]='\0';
51
52
     int main()
53
     {
54
55
       char infix[20],postfix[20];
       printf("Enter the valid infix
56
     expression\n");
       scanf("%s",infix);
57
       infix_postfix(infix,postfix);
58
       printf("The postfix expression is \n");
59
       printf("%s",postfix);
60
    }
61
```

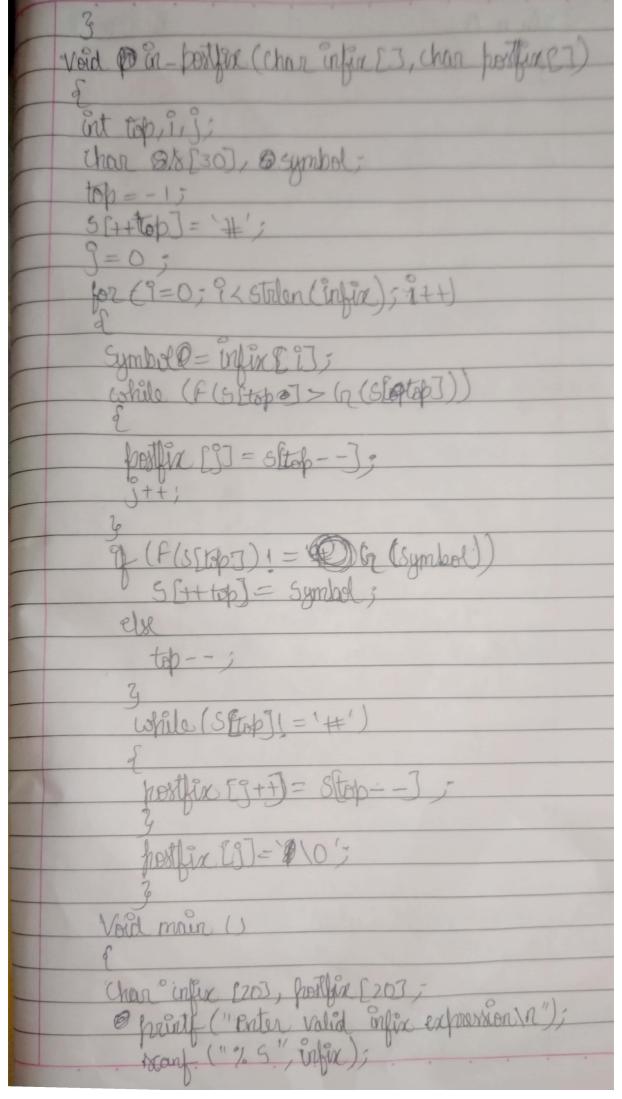
```
Enter the valid infix expression
((a+b)*c-(d-e))^(f+g)
The postfix expression is
ab+c*de--fg+^
[Program finished]
```

```
Enter the valid infix expression
((a+(b-c)*d)^e+f)
The postfix expression is
abc-d*+e^f+
[Program finished]
```

Enter the valid infix expression a^b*c-d+e/f/(g+h)

[Program finished]The postfix expression is ab^c*d-ef/gh+/+

LAB-2	SPLAS
LAB-2 WAP to convert influ expression to	hostla
eahression.	, Due
# include < stdio .ns	19/19/
# Enclude < Strang-h>	
# include < process h>	
int & (chan Symbol)	
on receive squares	
switch (symbol)	
8	
Carl'+':	
Case 1-1. noturn ?;	
Cash 'x':	
Case 1/2 return 4/	
Case in.	
Case '\$': Neturn 5;	
Case (return 0;	
Case '#': networ -15	
default: return 8:	
3	
30	
Ent Co (Chan symbol)	
Scritch (Symbol) @	
& Will (Symbol) &	
Case 't':	
Case'-': return 1;	
Cook 'X';	
Case 1/ : return 3;	
Case 'n'?	
(are '8': return 6)	
cose 'c' roture 9;	
Case C: roturn 9; Case S: return 0; default: return 7;	
Je de la company	



con hostin (infin hostin);

print ("ho hostin rathrusian is: n");

print ("905 m", o prostin);

setura o;