```
#include <stdio.h>
#include <string.h>
#include <process.h>
int F(char symbol)
{
    switch(symbol)
    {
        case '+':
        case '-': return 2;
        case '*':
        case '/': return 4;
        case '^':
        case '$': return 5;
        case '(': return 0;
        case '#': return -1;
        default: return 8;
    }
}
```

```
int G(char symbol)
{
    case '+':
    case '-': return 1;
    case '*':
    case '/': return 3;
    case '^':
    case '$': return 6;
    case '(': return 9;
    case ')': return 0;
    default: return 7;
}
}

Void infix-postfix (char infix[], char postfix[])
{
    int i, j;
    char s[50]; symbol;
    top = -1;
    s[++top] = '#';
    j = 0;
for (i=0; i< strlen(infix); i++)
    {
        symbol = infix[i];
    while (F(s[top]) > G(symbol))
    {
        postfix[j] = s[top--];
        j++;
    }
```

```
if (F(s[top]) != G(symbol))
    {
        s[++top] = symbol;
    }
else
    top--;
}
while (s[top] != '#')
    {
        postfix[j++] = s[top--]
    }
    postfix[j] = '\0';
}
Void main()
{
    char infix[20];
    char postfix[20];
    printf("enter valid infix expression");
        scanf("%s", infix);

    infix_postfix(infix, postfix);
    printf("The postfix expression is");
        printf("%s\n", postfix);
        getch();
}
```