```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<process.h>
int F(char symbol)
{
        switch(symbol)
        {
                 case'+':
                 case'-': return 2;
                 case'*':
                 case'/': return 4;
                 case'^':
                 case'$': return 5;
                 case'(': return 0;
                 case'#': return -1;
                 default: return 8;
        }
}
int G(char symbol)
{
        switch(symbol)
        {
                 case'+':
                 case'-': return 1;
                 case'*':
                 case'/': return 3;
                 case'^':
                 case'$': return 6;
                 case'(': return 9;
```

```
case')': return 0;
                 case'#': return -1;
                 default: return 7;
        }
}
void conversion(char infix[],char postfix[])
{
        int top,i,j;
        char s[50],symbol;
        top=-1;
        s[++top]='#';
        j=0;
        for(i=0;i<strlen(infix);i++)</pre>
        {
                 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';
}
int main()
{
    char infix[20];
    char postfix[20];
    printf("Enter the expression:");
    scanf("%s",infix);
    conversion(infix,postfix);
    printf("\nThe postfix of the expression is:%s ",postfix);
    return 0;
}
```

OUTPUT:

```
Enter the expression:(a+b)*(c+d)

The postfix of the expression is:ab+cd+*

Process exited after 16.32 seconds with return value 0

Press any key to continue . . .
```