```
#include<stdio.h>
#include<string.h>
void infixtopostfix();
void push (char symbol);
char pop();
int pred (char symb);
int index=0, pos=0, top=-1, length;
char symbol,temp,infix[20],postfix[20],stack[20];
void main()
    printf("enter infix expression: ");
    scanf("%s", infix);
    infixtopostfix();
    postfix[pos] = '\0';
    printf("\n infix expression:\n %s ",infix);
    printf("\n postfix expression:\n %s ",postfix);
void infixtopostfix()
    length=strlen(infix);
   push ('#');
    while (index<length)
        symbol=infix[index];
        switch (symbol)
            case ( : push (symbol);
                    break:
            case | | :temp=pop();
                    while (temp!='(')
                        postfix[pos]=temp;
                        pos++;
                         temp=pop();
                    break:
            case +:
            case -:
            case ::
            case'/':
```

```
case'/':
            case' ::
                    while (pred(stack[top])>=pred (symbol))
                        temp=pop();
                        postfix[pos++]=temp;
                     push (symbol);
                     break;
            default:postfix[pos++]=symbol;
       1
       index++;
   1
   while (top>0)
   1
       temp=pop();
        postfix[pos++]=temp;
   1
void push (char symbol)
1
   top=top+1;
    stack[top]=symbol;
- }
char pop()
   char symb;
   symb=stack[top];
   top=top-1;
   return (symb);
int pred(char symbol)
1
   int p;
   switch (symbol)
   - 6
        case' ': p=3;
               break;
        case' ::
        case'/':p=2;
```

```
while (top>0)
     {
         temp=pop();
         postfix[pos++]=temp;
     }
8}
void push(char symbol)
]{
     top=top+1;
     stack[top]=symbol;
∄}
char pop()
] {
     char symb;
     symb=stack[top];
     top=top-1;
     return(symb);
int pred(char symbol)
]{
     int p;
     switch (symbol)
     {
         case'^':p=3;
                  break;
         case1 * 1:
         case'/':p=2;
                  break;
         case'+':
         case'-':p=1;
                  break;
         case'(':p=0;
                  break;
         case'#':p=-1;
                  break;
     return (p);
```

```
enter infix expression: A$B*C-D+E/F

infix expression:
A$B*C-D+E/F

postfix expression:
A$BC*D-EF/+

Process returned 35 (0x23) execution time : 18.250 s

Press any key to continue.
```