```
#include<stdio.h>
 #include<string.h>
 int top=-1, pos=0,len,i;
 char infix[20],postfix[20],stack[20], sy,temp;
 void infixtopostfix();
 void push (char sy);
 char pop();
 int prec (char sy);
 void main()
- {
     printf("enter the infix expression: ");
     gets (infix);
     infixtopostfix();
     printf("infix expresson is %s: ",infix);
     printf("\npostfix expression is %s: ", postfix);
void infixtopostfix()
- {
     len=strlen(infix);
     push ('#');
     for (i=0; i<len; i++)
     -{
         sy=infix[i];
         switch (sy)
         case '(': push(sy);
                break;
         case ') ': temp=pop();
                 while (temp!='(')
                      postfix[pos++]=temp;
                      temp=pop();
                 break;
         case ''':
         case '/':
         case '+':
         case '-':
```

```
case '-':
        case 101:
                while (prec(stack[top])>=prec(sy))
                    temp=pop();
                    postfix[pos++]=temp;
                push (sy);
                break;
        default :
            postfix[pos++]=sy;
    while (top>0)
        temp=pop();
       postfix[pos++]=temp;
void push (char x)
    stack[++top]=x;
char pop()
    char s;
    s=stack[top--];
    return s;
int prec (char c)
    int p;
    switch(c)
    case '^!:
        p=3;
        break;
```

```
case 'A':
  p=3;
 break;
case '*':
case '/':
 p=2;
 break;
case '+':
case '-':
  p=1;
 break;
case '(':
case ')':
  p=0;
  break;
case '#':
  p=-1;
   break;
return p;
```

```
enter the infix expression: a+b*(c-d^e)/f
infix expresson is a+b*(c-d^e)/f:
postfix expression is abcde^-*f/+:
Process returned 36 (0x24) execution time: 33.963 s
Press any key to continue.
```