```
#include<stdio.h>
#include<ctype.h>
#define SIZE 50
char stack[SIZE];
int top=-1;
void push(char elem)
{
       stack[++top]=elem;
}
char pop()
{
        return stack[top--];
}
int pr(char symbol)
{
       if(symbol=='^')
       {
               return(3);
       }
        else if(symbol=='*'||symbol=='/')
       {
               return(2);
       }
        else if(symbol=='+'||symbol=='-')
```

```
{
                 return(1);
        }
        else
        {
                 return(0);
        }
}
int main()
{
        char infix[50],postfix[50],ch,elem;
        int i=0,k=0;
        printf("Enter the Infix expression: ");
        scanf("%s",&infix);
        push('#');
        while((ch=infix[i++])!='\setminus 0')
        {
                 if(ch=='(')push(ch);
                 else
                          if(isalnum(ch))postfix[k++]=ch;
                          else
                                  if(ch==')')
                                  {
                                           while(stack[top]!='(')
                                                    postfix[k++]=pop();
```

```
elem=pop();
                            }
                             else
                            {
                                    while(pr(stack[top])>=pr(ch))
                                           postfix[k++]=pop();
                                    push(ch);
                            }
      }
      while(stack[top]!='#')
              postfix[k++]=pop();
      postfix[k]='\0';
      printf("\nPostfix Expression = %s\n",postfix);
      return 0;
Enter the Infix expression: ((a*b)+c*d-e)
Postfix Expression = ab*cd*+e-
(program exited with code: 0)
Press any key to continue . . .
```