**#include<stdio.h>**

**#include<string.h>**

**char postfix[20],infix[20],stack[20],temp;**

**int top=-1,len,pos=0;**

**int ind=0;**

**char pop();**

**void push(char);**

**int get\_precedence(char);**

**void infixToPostfix();**

**int main()**

**{**

**printf("Enter infix expression\n");**

**scanf("%s",infix);**

**infixToPostfix();**

**printf("infix expression %s\nPostfix expression %s",infix,postfix);**

**return 0;**

**}**

**char pop()**

**{**

**return stack[top--];**

**}**

**void push(char ch)**

**{**

**stack[++top]=ch;**

**}**

**int get\_precedence(char ch)**

**{**

**switch(ch)**

**{**

**case '^':return 3;**

**case '\*':**

**case '/': return 2;**

**case '+':**

**case '-': return 1;**

**case '(': return 0;**

**default: return -1;**

**}**

**}**

**void infixToPostfix()**

**{**

**len=strlen(infix);**

**push('#');**

**while(ind<len)**

**{**

**char ch=infix[ind++];**

**switch(ch)**

**{**

**case '(':push(ch);**

**break;**

**case ')':temp=pop();**

**while(temp!='(')**

**{**

**postfix[pos++]=temp;**

**temp=pop();**

**}**

**break;**

**case '\*':**

**case '/':**

**case '+':**

**case '-':**

**case '^': while(get\_precedence(stack[top])>=get\_precedence(ch))**

**{**

**postfix[pos++]=pop();**

**}**

**push(ch);**

**break;**

**default: postfix[pos++]=ch;**

**}**

**}**

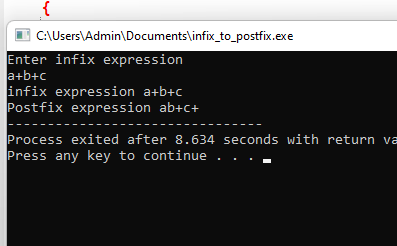
**while(top>=1)**

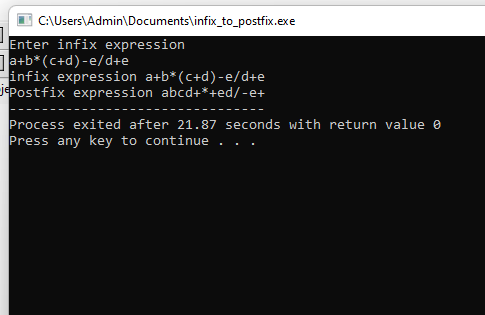
**{**

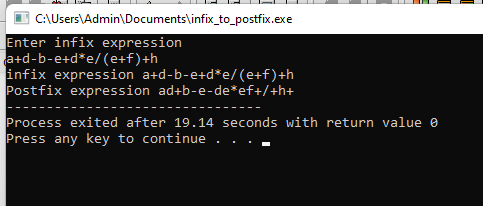
**postfix[pos++]=pop();**

**}**

**}**

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****

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