

```

1  #include<stdio.h>
2  #include<math.h>
3  #include<string.h>
4  #include<stdlib.h>
5  double compute(char symbol,double op1,double op2)
6  {
7      switch(symbol)
8      {
9          case '+': return op1+op2;
10         case '-': return op1-op2;
11         case '*': return op1*op2;
12         case '/': return op1/op2;
13         case '^': return pow(op1,op2);
14         default : exit(0);
15     }
16 }
17
18 int main()
19 {
20     double s[20];
21     double op1,op2;
22     double result;
23     int top,i;
24     char postfix[20],symbol;
25     printf("\nEnter the Valid Postfix expression\n");
26     scanf("%s",postfix);
27     top=-1;
28     for(i=0;i<strlen(postfix);i++)
29     {
30         symbol=postfix[i];
31         if(isdigit(symbol))
32         {
33             s[++top]=symbol-'0';
34         }
35         else
36         {
37             op2=s[top--];
38             op1=s[top--];

```

Status gcc -Wall -c "p.c" (in directory: C:\Users\DELL\Desktop\New folder)

Compiler Compilation finished successfully.

Messages

Scribble


```

29      symbol=postfix[i];
30      if(isdigit(symbol))
31      {
32          s[++top]=symbol-'0';
33      }
34      else
35      {
36          op2=s[top--];
37          op1=s[top--];
38          result=compute(symbol,op1,op2);
39          s[++top]=result;
40      }
41  }
42  result=s[top--];
43  printf("RESULT=%f\n",result);
44  return 0;
45  }
46
47
48

```

Status gcc -Wall -c "p.c" (in directory: C:\Users\DELL\Desktop\New folder)

Compiler Compilation finished successfully.

Messages

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C:\WINDOWS\SYSTEM32\cmd.exe

Enter the Valid Postfix expression

123+*321-+*

RESULT=20.000000

(program exited with code: 0)

Press any key to continue . . .