

structures.c ✕ totalmarks.c ✕ salarybill.c ✕ alphanumeric.c ✕ sine ✕ series ✕ grades ✕ prime

```
#include<stdio.h>
#include<ctype.h>
#include<string.h>
#include<math.h>
double compute(char symbol,double op1,double op2)
```

```
{
    switch(symbol)
    {
        case '+':
            return (op1+op2);
        case '-':
            return (op1-op2);
        case '*':
            return (op1*op2);
        case '/':
            return (op1/op2);
        case '^':
            return (pow(op1,op2));
    }
}
```

```
void main()
```

```
{
    double s[20];
    double res;
    double op1,op2;
    int top,i;
    char postfix[20];
    char symbol;
    printf("ENTER THE POSTFIX EXPRESSION\n");
    scanf("%s",postfix);
    top=-1;
    for(i=0;i<strlen(postfix);i++)
    {
        symbol=postfix[i];
        if(isdigit(symbol))

```

```

double s[20];
double res;
double op1,op2;
int top,i;
char postfix[20];
char symbol;
printf("ENTER THE POSTFIX EXPRESSION\n");
scanf("%s",postfix);
top=-1;
for(i=0;i<strlen(postfix);i++)
{
    symbol=postfix[i];
    if(isdigit(symbol))
    {
        s[++top]=symbol-'0';
    }
    else
    {
        op2=s[top--];
        op1=s[top--];
        res=compute(symbol,op1,op2);
        s[++top]=res;
    }
}
res=s[top--];
printf("THE FINAL RESULT IS=%f\n",res);
}

```


File C:\WINDOWS\SYSTEM32\cmd.exe

New ENTER THE POSTFIX EXPRESSION

Sym 123+*321-+*

THE FINAL RESULT IS=20.000000

(program exited with code: 30)

Press any key to continue . . .