

```
#include <stdio.h>
```

```
#include <math.h>
```

```
#include <string.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 '$':
    case '^': return pow(op1, op2);
}

```

```

}

```

```

void main()

```

```

{

```

```

    double s[20];

```

```

    double res;

```

```

    int top, i;

```

```

    char postfix[20], symbol;

```

```

    printf("Enter postfix exp: \n");

```

```

    scanf("%s", postfix);

```

```

    top = -1;

```

```

    for (i = 0; i < strlen(postfix); i++)
    {

```

```

        symbol = postfix[i];

```

```

        if (isdigit(symbol))

```

```

        {

```

```

            s[++top] = symbol - '0';

```

```

        }

```

```

    }

```

```

        op2 = s[top--];

```

```

        op1 = s[top--];

```

```

        res = compute(symbol, op1, op2);

```

```

        s[++top] = res;

```

```

    }

```

```

}

```

```

res = s[top--];

```

```

printf("Result = %f \n", res);

```

```

getch();

```

```

}

```