```
1 #include <stdio.h>
 2
 3 // *** GLOBAL SCOPE ***
 5 int main(void)
 6 {
       // *** LOCAL SCOPE OF main() begins ***
 7
 8
 9
       // variable declarations
10
       // 'a' is a Local Variable. It is local to main() only.
11
       int a = 5;
12
       //function prototypes
13
14
       void change_count(void);
15
16
       //code
       printf("\n");
17
18
       printf("A = %d\n\n", a);
19
20
       // local_count is initialized to 0.
21
       // local_count = local_count + 1 = 0 + 1 = 1
22
       change_count();
23
       // Since, 'local_count' is a local static variable of change_count(), it WILL >
24
         retain its value from previous call to change_count().
25
       // So local_count is 1
       // local_count = local_count + 1 = 1 + 1 = 2
26
27
       change_count();
28
29
       // Since, 'local_count' is a local static variable of change_count(), it WILL >
         retain its value from previous call to change_count().
30
       // So local_count is 2
       // local_count = local_count + 1 = 2 + 1 = 3
31
32
       change_count();
33
       return(0);
34
35
       // *** LOCAL SCOPE OF main() ends ***
36
37 }
39 // *** GLOBAL SCOPE ***
41 void change_count(void)
42 {
       // *** LOCAL SCOPE OF change_count() begins ***
43
45
       // variable declarations
46
       // 'local_count' is a Local Static Variable. It is local to change_count()
47
       // It will retain its value between calls to change_count()
        static int local_count = 0;
48
49
```

```
...lVariables\02-LocalStaticVariables\LocalStaticVariables.c
```

```
2
50
       //code
51
       local_count = local_count + 1;
       printf("Local Count = %d\n", local_count);
52
53
       // *** LOCAL SCOPE OF change_count() ends ***
54
55 }
56
57 // *** GLOBAL SCOPE ***
```