

## SWAP.CPP source

```
01: /*
02:  * Write a program to swap two variables with the help
03:  * of a user defined function
04:  */
05:
06: #include <iostream>
07: using namespace std;
08:
09: /*
10:  * swap is a function which accepts two variables
11:  * passed by reference
12:  */
13: void swap(int& var1, int& var2) {
14:     int temp = var1;
15:     var1 = var2;
16:     var2 = temp;
17: }
18:
19: int main() {
20:
21:     //define two variables
22:     int var1,var2;
23:
24:     //read values from user
25:     cout<<"Enter the values of variables:"<<endl;
26:     cout<<"var1=";
27:     cin>>var1;
28:     cout<<"var2=";
29:     cin>>var2;
30:
31:     //call the swap function
32:     swap(var1,var2);
33:
34:     //output the new values
35:     cout<<"New values:"<<endl;
36:     cout<<"var1="<<var1<<endl;
37:     cout<<"var2="<<var2<<endl;
38:
39:     //Tell OS that everything is ok
40:     return 0;
41:
42: }
43:
44:
```

## SWAP.CPP output

```
1: Enter the values of variables:  
2: var1=10  
3: var2=100  
4: New values:  
5: var1=100  
6: var2=10  
7:
```