

Data Structures using C

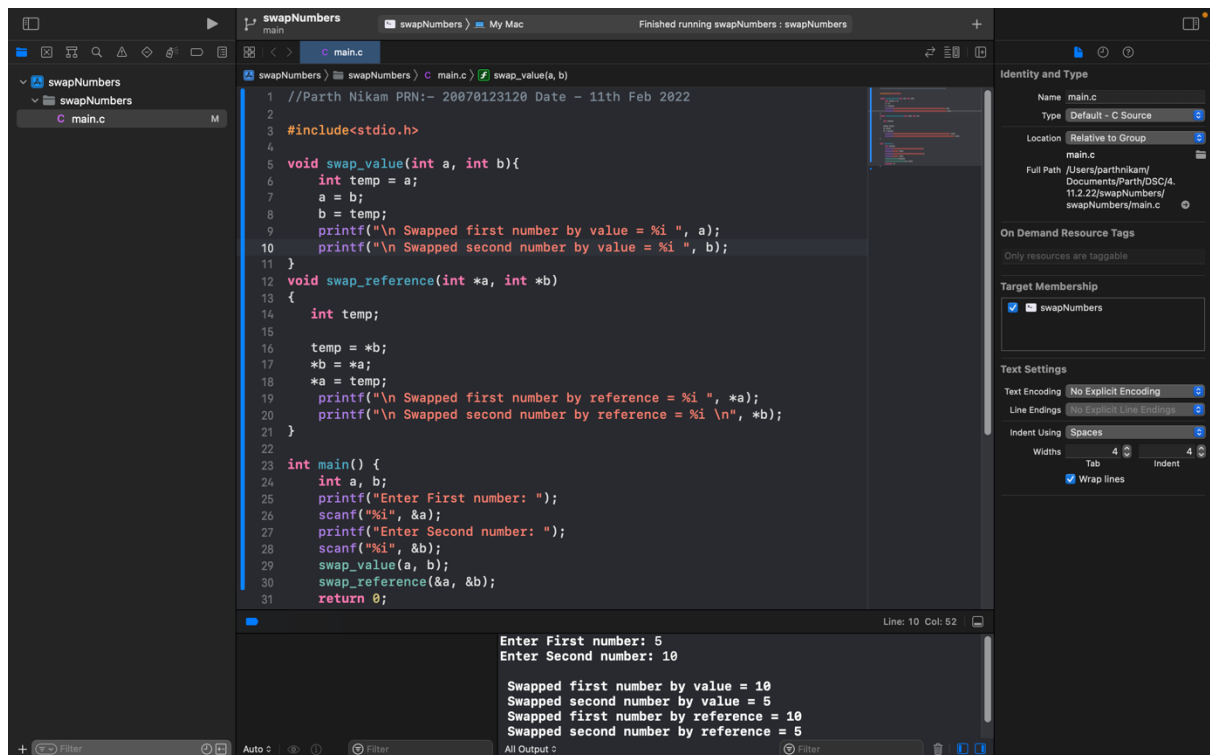
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Aim: - Create a call by value and call by reference function to swap two numbers in C.

Objective: - To implement the learning of creating functions in C language

Screenshot: -



```
1 //Parth Nikam PRN:- 20070123120 Date - 11th Feb 2022
2
3 #include<stdio.h>
4
5 void swap_value(int a, int b){
6     int temp = a;
7     a = b;
8     b = temp;
9     printf("\n Swapped first number by value = %i ", a);
10    printf("\n Swapped second number by value = %i ", b);
11 }
12 void swap_reference(int *a, int *b)
13 {
14     int temp;
15
16     temp = *b;
17     *b = *a;
18     *a = temp;
19     printf("\n Swapped first number by reference = %i ", *a);
20     printf("\n Swapped second number by reference = %i \n", *b);
21 }
22
23 int main() {
24     int a, b;
25     printf("Enter First number: ");
26     scanf("%i", &a);
27     printf("Enter Second number: ");
28     scanf("%i", &b);
29     swap_value(a, b);
30     swap_reference(&a, &b);
31     return 0;
32 }
```

Enter First number: 5
Enter Second number: 10

Swapped first number by value = 10
Swapped second number by value = 5
Swapped first number by reference = 10
Swapped second number by reference = 5

Result: - Call by value and call by reference Function to swap two numbers in C is created successfully.