## Assignment - 6

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Write a program for swapping of two numbers using 'call by value' and 'call by reference' strategies.

## • Code:

```
#include clostream>
using namespace std;

// call by value
void swapbyValue(int a, int b)
{
    int temp = a;
    a = b;
    b = temp;

// call by reference
void swapbyReference(int &a, int &b)

(
    int temp = a;
    a = b;
    b = temp;

// call by reference
void swapbyReference(int &a, int &b)

(
    int temp = a;
    a = b;
    b = temp;

// b = temp;

// b = temp;

// call by reference
void swapbyReference(int &a, int &b)

(
    int temp = a;
    a = b;
    b = temp;

// p = temp;

// p = temp;

// p = temp;

// call by reference method:\n";

// printf("Before swapping: x = %d , y = %d\n", x, y);

// swapByValue(x, y);

// printf("After swapping: x = %d , y = %d\n", x, y);

// swapByValue(x, y);

// printf("After swapping: x = %d , y = %d\n", x, y);

// swapByValue(x, y);

// printf("After swapping: x = %d , y = %d\n", x, y);

// swapByValue(x, y);

// printf("After swapping: x = %d , y = %d\n", x, y);

// return 0;

// return 0;
```

## • Output:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

cd "/home/rudrachinhara/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignments/Assignment-6/Swap/" && g++ swap.cpp
-o swap && "/home/rudrachinhara/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignments/Assignment-6/Swap/" swap
rudrachinhara@dell-vostro:~/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignments? cd "/home/rudrachinhara/Docume
nts/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignment-6/Swap/" && g++ swap.cpp -o swap && "/home/rudrachinha
ra/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignment-6/Swap/" && g++ swap.cpp -o swap && "/home/rudrachinha
ra/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignment-6/Swap/" swap
By call by value method:
Before swapping: x = 10 , y = 20
By call by reference method:
Before swapping: x = 10 , y = 20
After swapping: x = 20 , y = 10
rudrachinhara@dell-vostro:~/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA\_Assignments/Assignment-6/Swap\$