**C++ program to swap two numbers without using third variable.**

**With class:**

**#include<iostream>**

**using namespace std;**

**class SWAP**

**{**

**int x,y;**

**public:**

**void input()**

**{**

**cout<<" enter the value of x: "<<endl;**

**cin>>x;**

**cout<<" enter the value of y: "<<endl;**

**cin>>y;**

**}**

**void output()**

**{**

**x=x+y;**

**y=x-y;**

**x=x-y;**

**cout<<"after swapping of no the value of x and y is: "<<endl;**

**cout<<"x:"<<x<<endl;**

**cout<<"y:"<<y<<endl;**

**}**

**};**

**main()**

**{**

**SWAP s;**

**s.input();**

**s.output();**

**}**

**Without class:**

**#include<iostream>**

**using namespace std;**

**main()**

**{**

**int x,y;**

**cout<<" enter the value of x: "<<endl;**

**cin>>x;**

**cout<<" enter the value of y: "<<endl;**

**cin>>y;**

**x=x+y;**

**y=x-y;**

**x=x-y;**

**cout<<"after swapping of no the value of x and y is: "<<endl;**

**cout<<"x:"<<x<<endl;**

**cout<<"y:"<<y<<endl;**

**}**