**Practical no.-**18

**Program no.-** 01

**Title:** Program to swap the values int,float,char

**Roll No.:** 76 **Batch-** C

**Code:**

#include <iostream>

#include <math.h>

using namespace std;

int main()

{

void swap(int \*px,int \*py);

void swap(float \*pn1,float \*pn2);

void swap(char \*pch1,char \*pch2);

int x,y;

float n1,n2;

char ch1,ch2;

cout<<"\nEnter 2 integers:-";

cin>>x>>y;

swap(&x,&y); //function call

cout<<"Integers after swapping:\n";

cout<<"x="<<x<<"\ty="<<y;

cout<<"\n\nEnter 2 float values:-";

cin>>n1;

cin>>n2;

swap(&n1,&n2); //function call

cout<<"\nFloating point after swapping:\n";

cout<<"x="<<n1<<"\ty="<<n2;

fflush(stdin);

cout<<"\n\nEnter 2 Characters:-";

cin>>ch1;

cin>>ch2;

swap(&ch1,&ch2); //function call

cout<<"\nCharacters after swapping:\n";

cout<<"Ch1="<<ch1<<"\tCh2="<<ch2;

return 0;

}

//Function to swap 2 integer values

void swap(int \*px,int \*py)

{

int temp;

temp=\*px;

\*px=\*py;

\*py=temp;

}

//Function to swap 2 float values

void swap(float \*pn1,float \*pn2)

{

float temp;

temp=\*pn1;

\*pn1=\*pn2;

\*pn2=temp;

}

//Function to swap 2 character values

void swap(char \*pch1,char \*pch2)

{

char temp;

temp=\*pch1;

\*pch1=\*pch2;

\*pch2=temp;

}

**OUTPUT:-**

Enter 2 integers:-10 15

Integers after swapping:

x=15 y=10

Enter 2 float values:-3.6 7.2

Floating point after swapping:

x=7.2 y=3.6

Enter 2 Characters:-A S

Characters after swapping:

Ch1=S Ch2=A

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