**2.Write program to swap three numbers using call by value, call by pointer and call by reference.**

**Code:**

#include <iostream>

using namespace std;

void callbyvalue(int a,int b, int c);

void print(int a,int b,int c);

void callbyreference(int &a,int &b,int &c);

void callbypointer(int \*a,int \*b,int \*c);

int main(){

int a,b,c;

int \*p=&a,\*q=&b,\*r=&c;

cout<<"\nEnter three numbers";

cin>>a>>b>>c;

cout<<"\nAfter swapping through call by value\n";

callbyvalue(a,b,c);

print(a,b,c);

cout<<"\nAfter swapping through call by reference\n";

callbyreference(a,b,c);

print(a,b,c);

cout<<"\nAfter swapping through call by pointer\n";

callbypointer(p,q,r);

print(a,b,c);

return 0;

}

void callbyvalue(int a,int b, int c) {

int temp;

temp=a;

a=b;

b=c;

c=temp;

}

void callbyreference(int &a,int &b,int &c){

int temp;

temp=a;

a=b;

b=c;

c=temp;

}

void callbypointer(int \*a,int \*b,int \*c){

int temp;

temp=\*a;

\*a=\*b;

\*b=\*c;

\*c=temp;

}

void print(int a,int b,int c) {

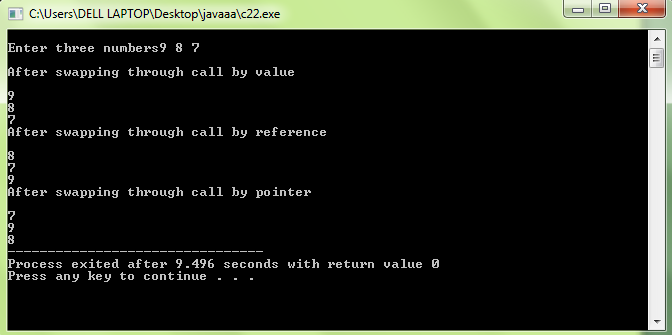
cout<<"\n"<<a;

cout<<"\n"<<b;

cout<<"\n"<<c;

}

**Output:**

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