Assignment - 8

Subject: PPS
Trimester: 2.

Name: Pranjay Beniwal   Division: 2
Roll no: 202053   Batch: A3

Aim: Write a C program to swap
2 numbers using pointers

Objective:
To learn and understand pointers in C
To learn and understand concept
call by value and call by refrences

Algorithm

Step1: Start
Step2: Declare a, b, swap $(\&a, \&b), t, *x, *y$
Step3: Input a, b
Step4: Swap $(\&a, \&b)$
        in swap $(int *x, int *y)$
            $t = *x$
            $*x = *y$
            $*y = t$
Step 5: Print a, b
Step 6: Stop

Flow chart

Start

Declare a, b, swap (&a, &b, t, *x, *y)

Input a, b

Print a, b

Swap (&a, &b)

t = *x
*x = *y
*y = *x

Print a, b

Stop
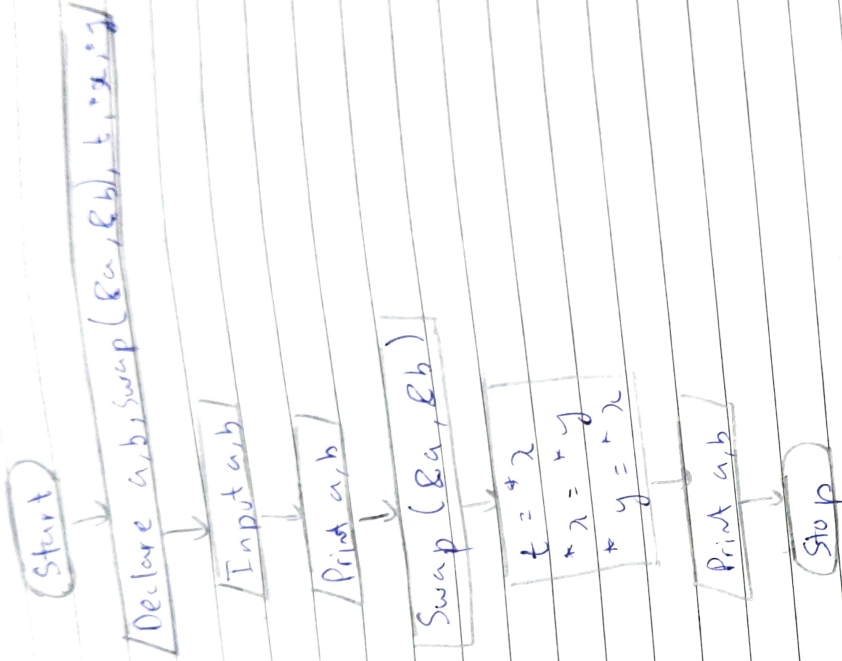
Input
Enter a = 10
Enter b = 20

Output
a = 10, b = 20
a = 20, b = 20

FAQ

1) In C, why is void pointer useful? Why would you use it?

→ A void point is useful when you are not sure of a the datatype of the data we input.

They should be used any time the content of a block of data isn't important

2) What does the error 'Null pointe assignment' mean

→ Null pointer assignment error happens when ~~our~~ your program tries to acess an illegal memory location. This means the memory thats being accessed is in another memory space