

## **ASSIGNMENT: 03**

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**ROLL NO:** CT-064

**SECTION:** B

**COURSE:** CODE IN PLACE

## **TASKS:**

### **QUESTION NO: 01**

Swap 2 integer variables without using a third variable.

### **PSEUDOCODE:**

**Step No: 01** Begin

**Step No: 02** Declare variables x and y

**Step No: 03** Input variable x and y

**Step No: 04** Show x and y before swapping

**Step No: 05**  $x = x + y$

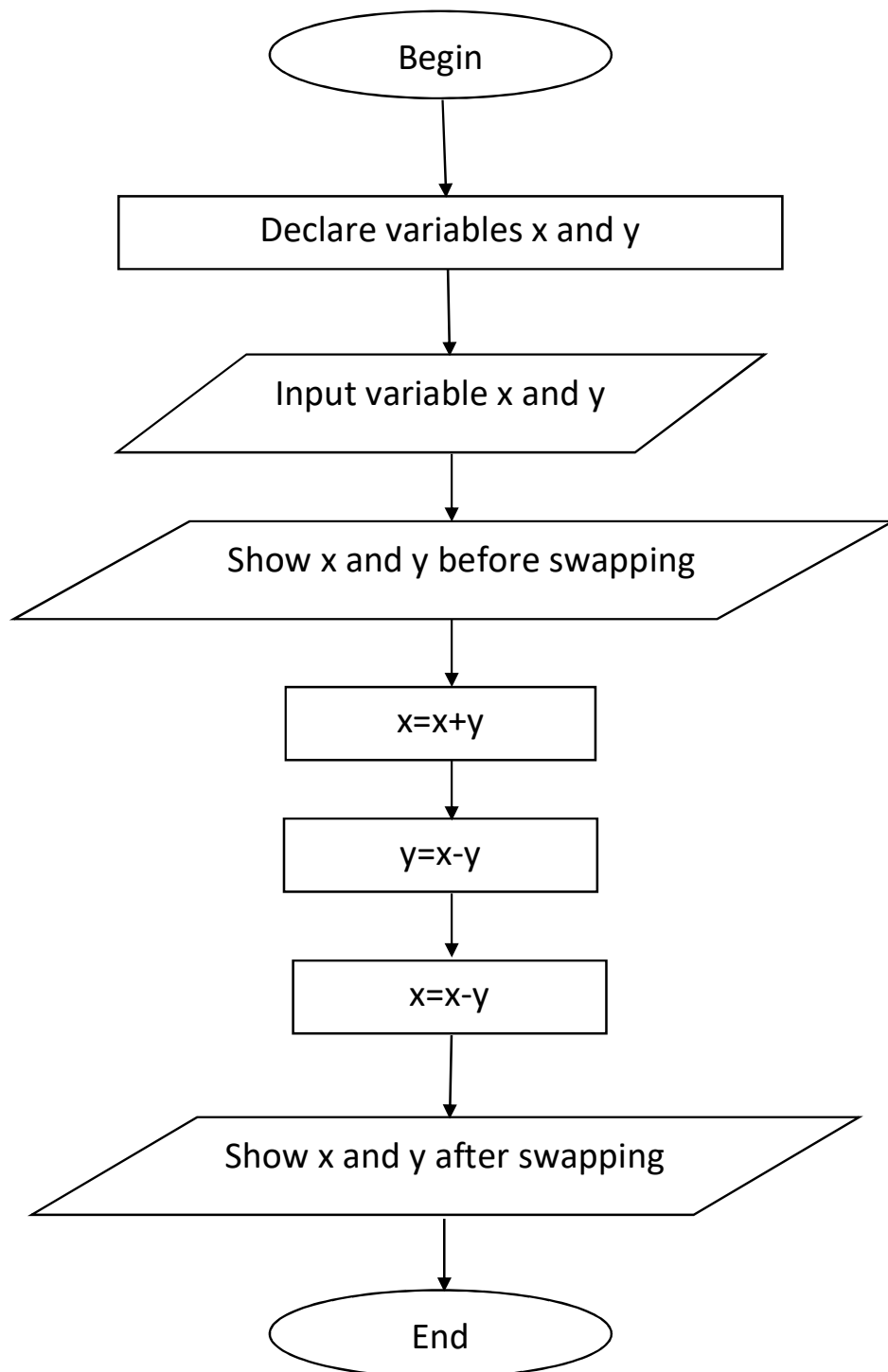
**Step No: 06**  $y = x - y$

**Step No: 07**  $x = x - y$

**Step No: 08** Show x and y after swapping

**Step No: 09** End

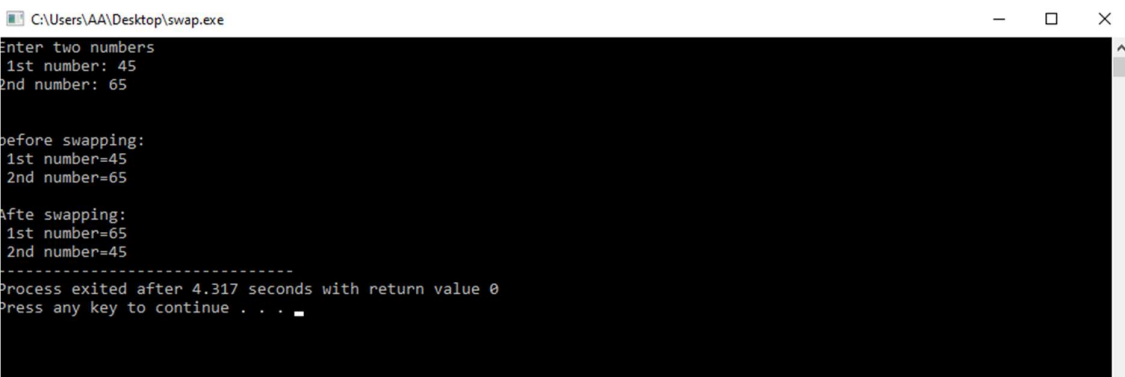
## FLOWCHART:



## SOURCECODE:

```
#include<stdio.h>
#include<conio.h>
int main(void)
{
    int x,y;
    printf("Enter two numbers\n 1st number: ");
    scanf("%d",&x);
    printf("2nd number: ");
    scanf("%d",&y);
    printf("\n\nbefore swapping:\n 1st number=%d\n 2nd
number=%d",x,y);
    x=x+y;
    y=x-y;
    x=x-y;
    printf("\n\nAfte swapping:\n 1st number=%d\n 2nd
number=%d",x,y);
    return 0;
}
```

## OUTPUT:



The screenshot shows a Windows command prompt window titled "C:\Users\AA\Desktop\swap.exe". The program prompts the user to "Enter two numbers". The user enters "45" for the "1st number" and "65" for the "2nd number". The program then displays "before swapping:" followed by "1st number=45" and "2nd number=65". After the swap, it displays "Afte swapping:" followed by "1st number=65" and "2nd number=45". At the bottom, it shows "Process exited after 4.317 seconds with return value 0" and "Press any key to continue . . .".

```
C:\Users\AA\Desktop\swap.exe
Enter two numbers
1st number: 45
2nd number: 65

before swapping:
1st number=45
2nd number=65

Afte swapping:
1st number=65
2nd number=45

Process exited after 4.317 seconds with return value 0
Press any key to continue . . .
```