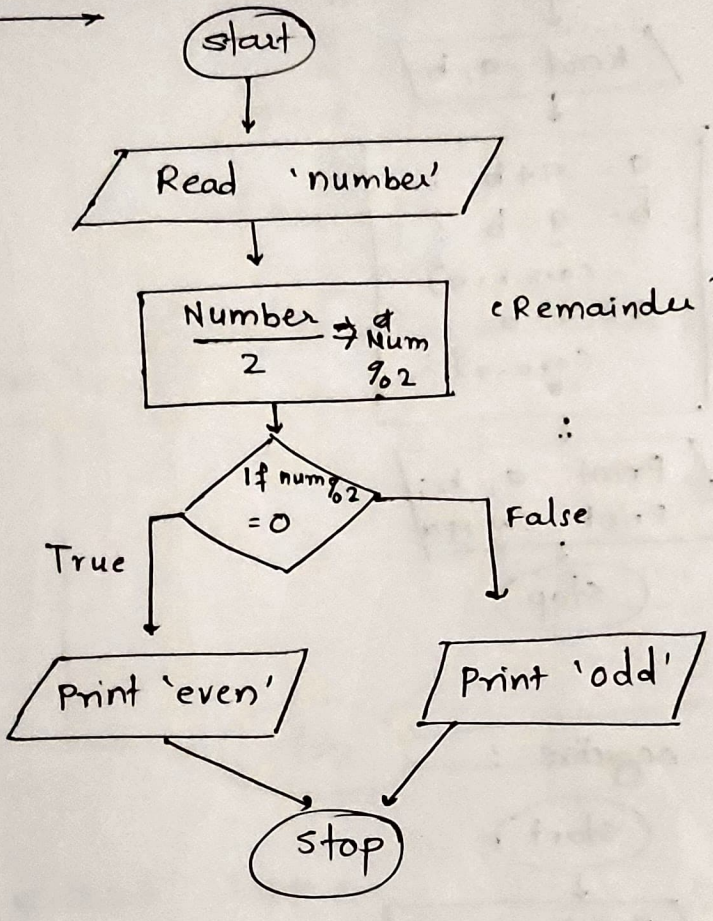
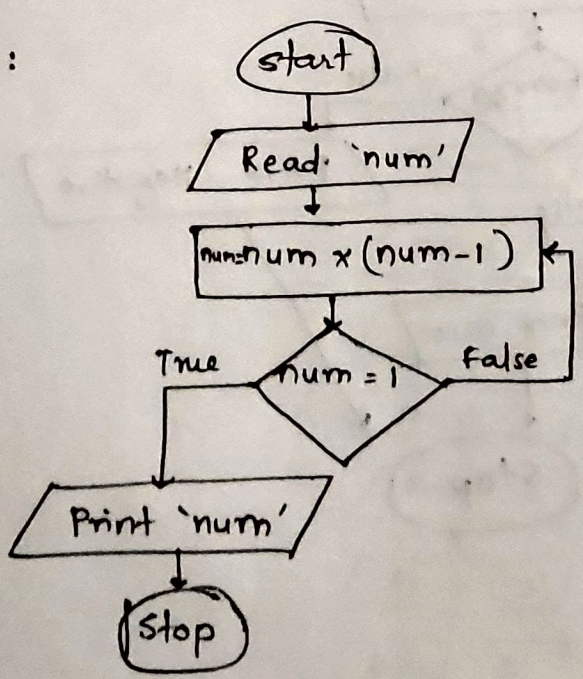
Assignment 1 :

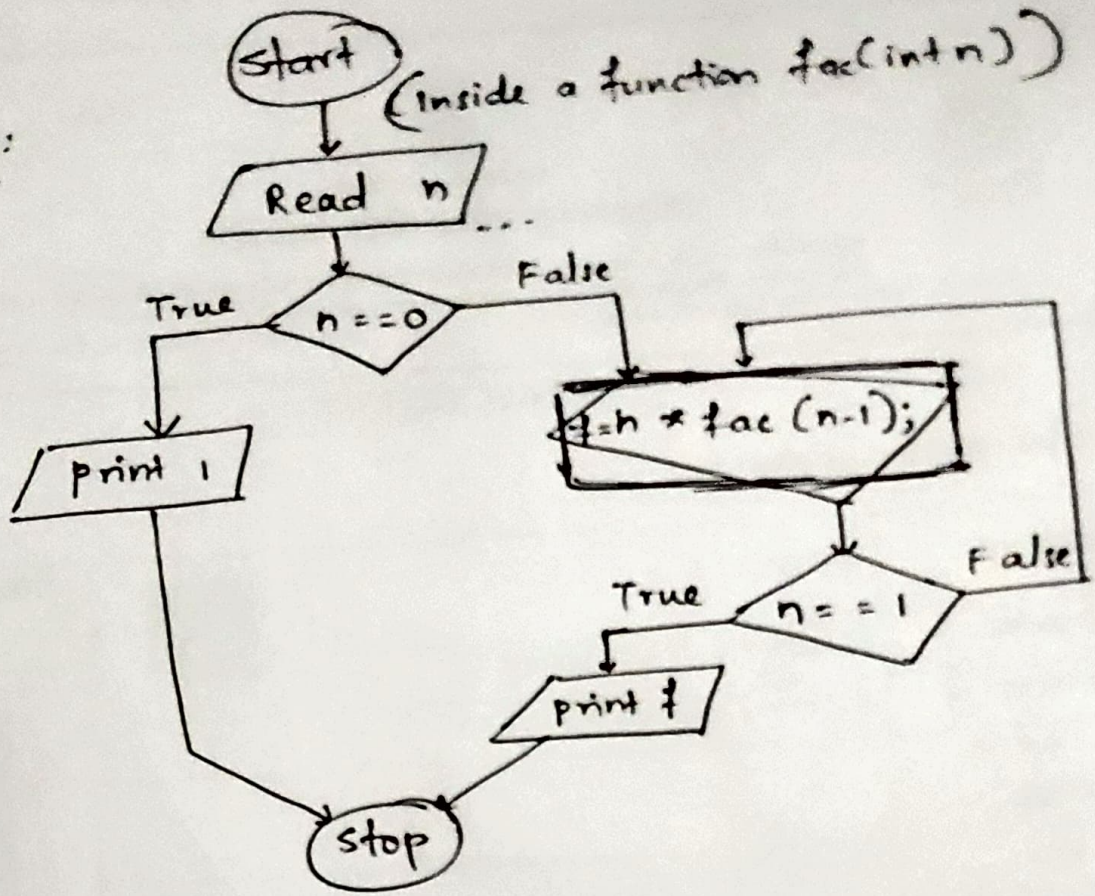
① Even or odd :



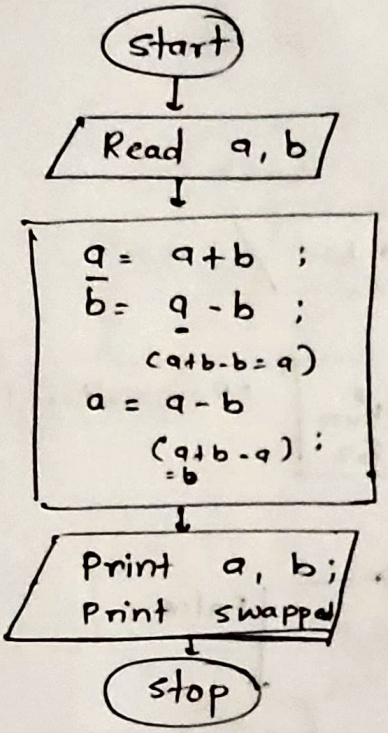
② Factorial :



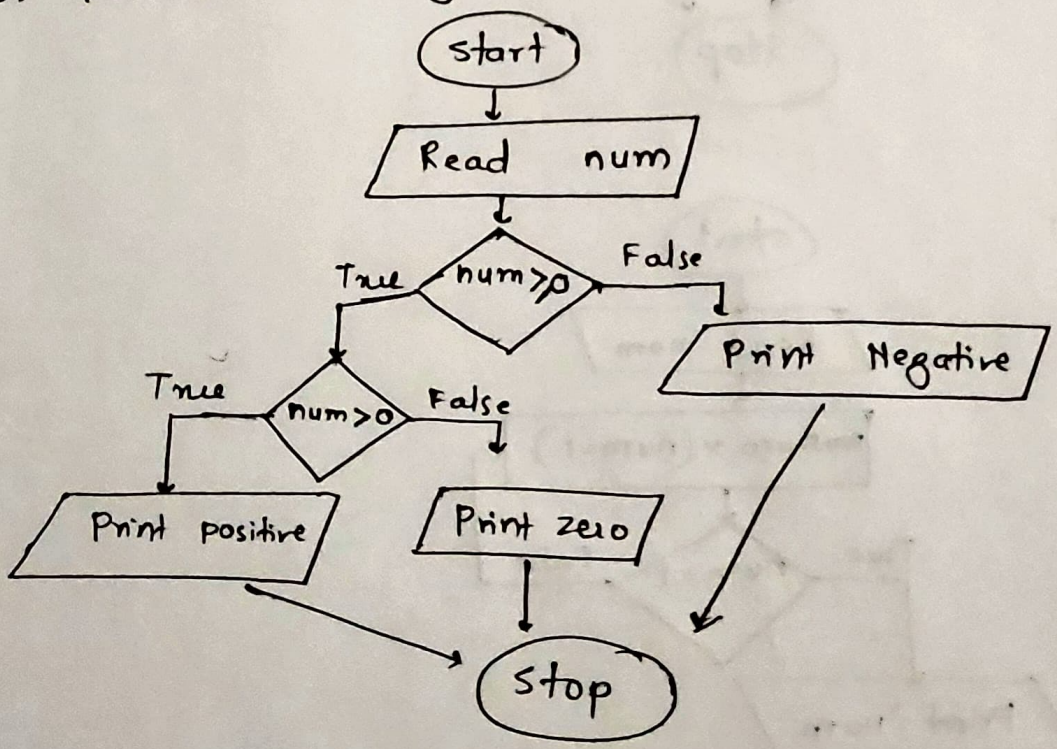
(3) factorial using recursion:



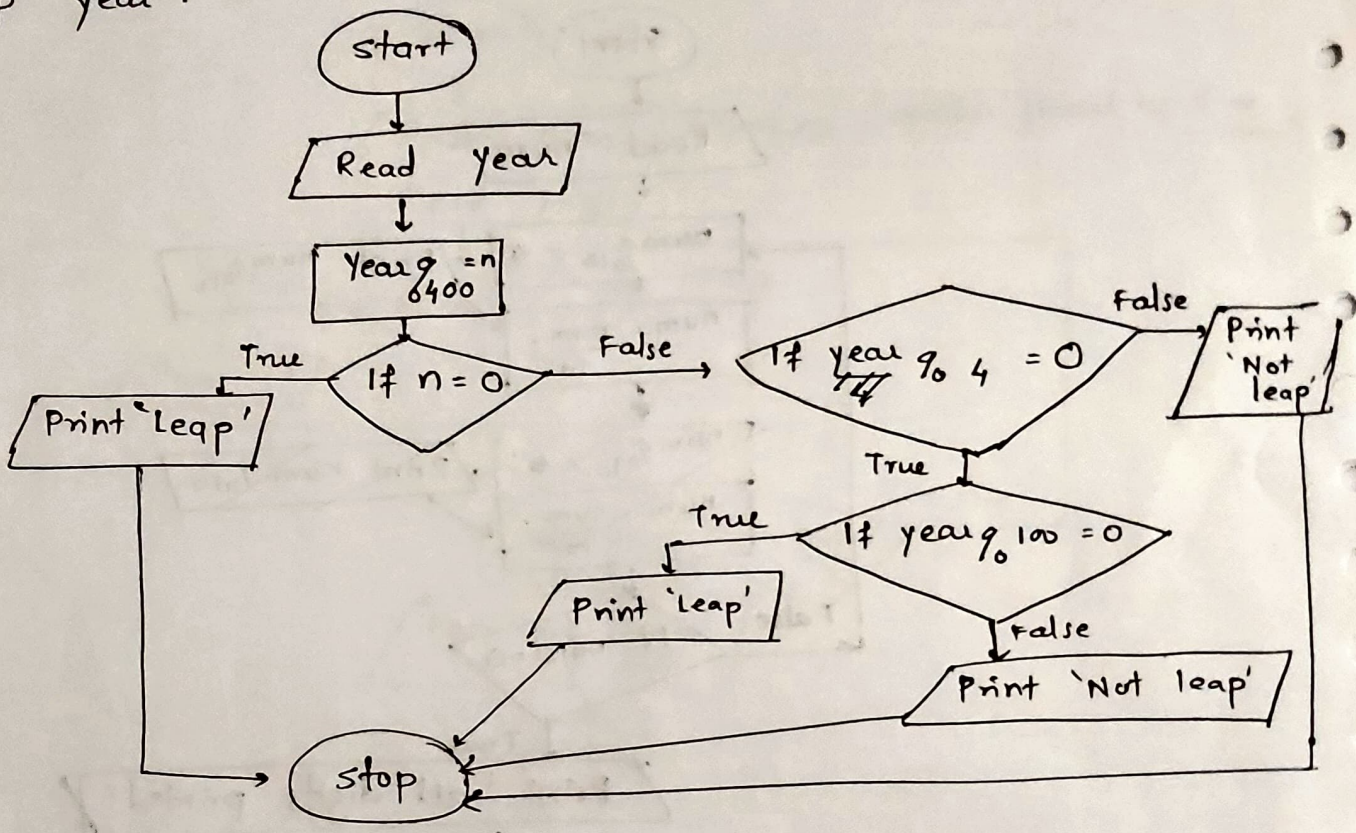
(4) Swap 2 numbers ~~wfo~~ without 3rd variable :



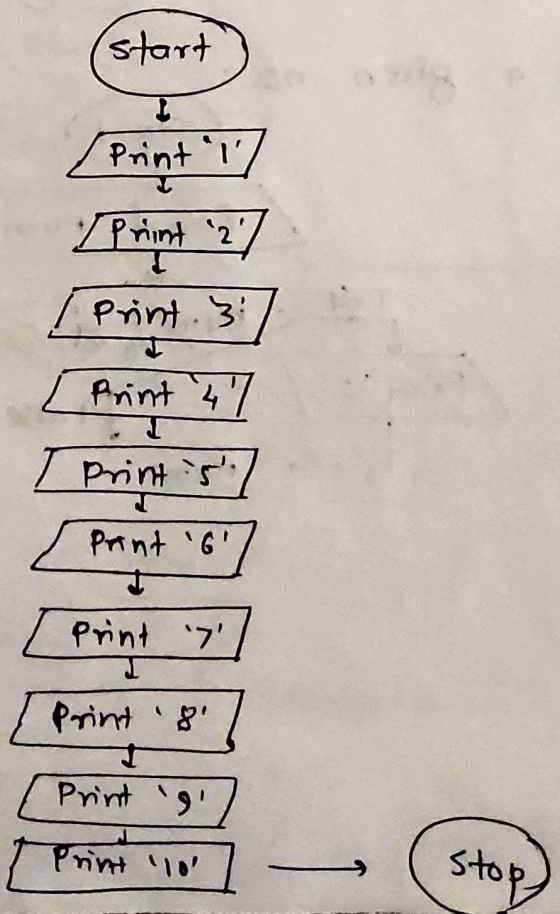
(5) No. positive or negative ?



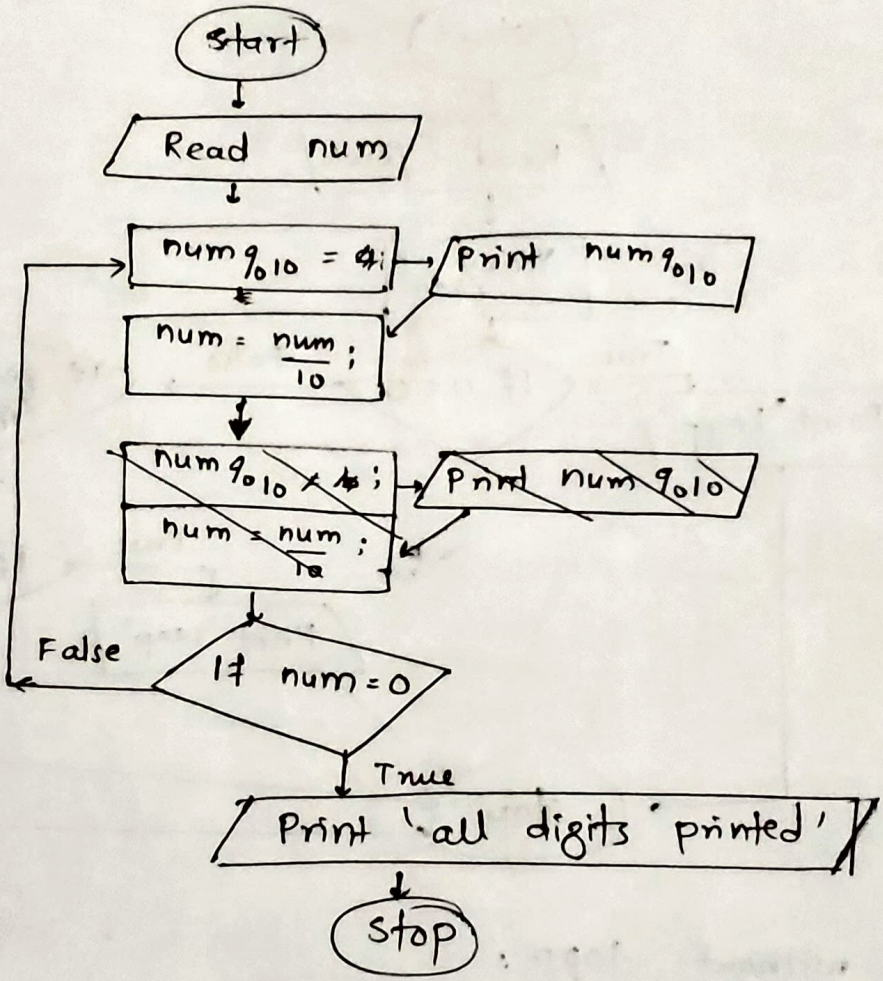
⑥ Leap year :



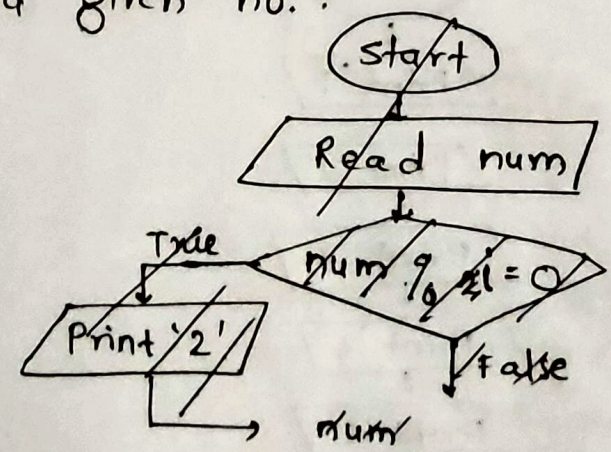
⑦ Print 1 – 10 without loop :



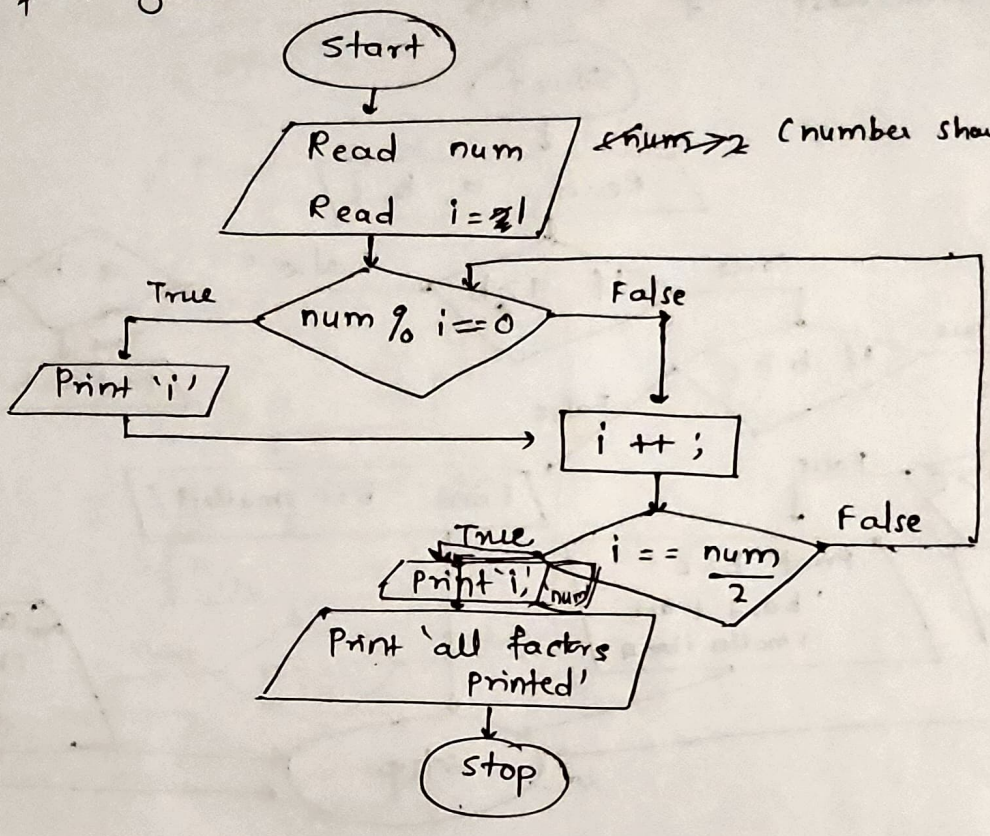
(8) Print digits of a no. :



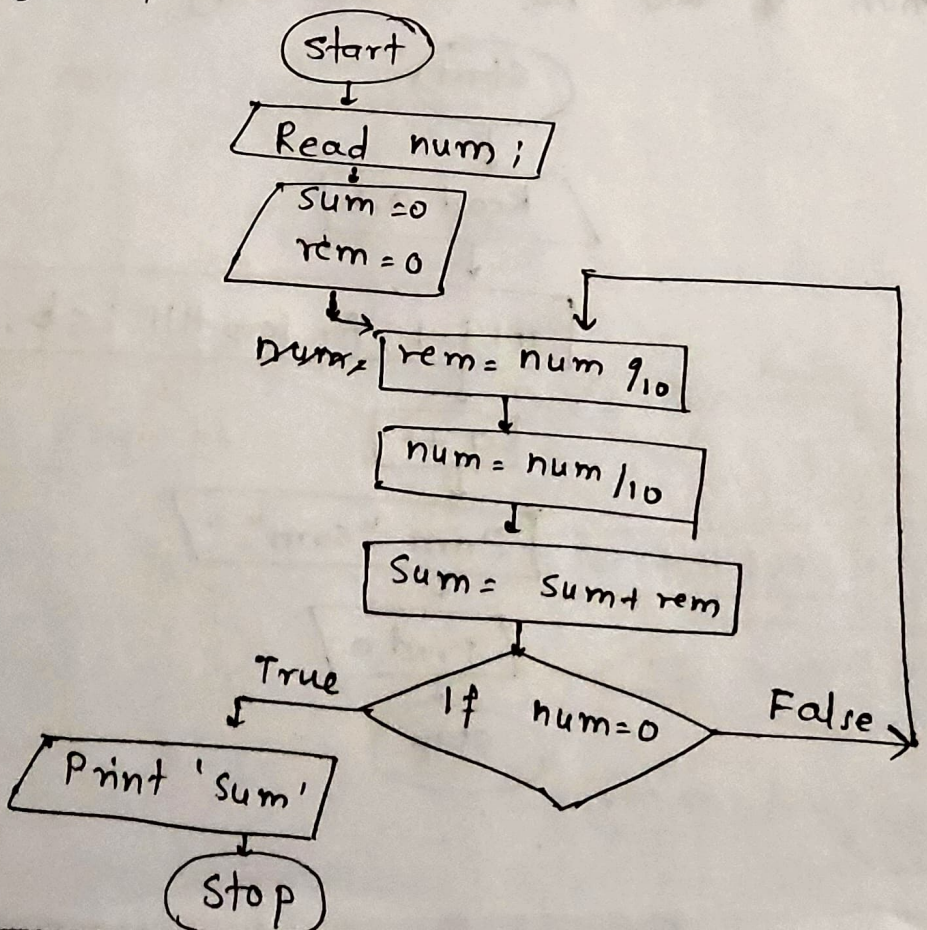
(9) Factors of a given no. :



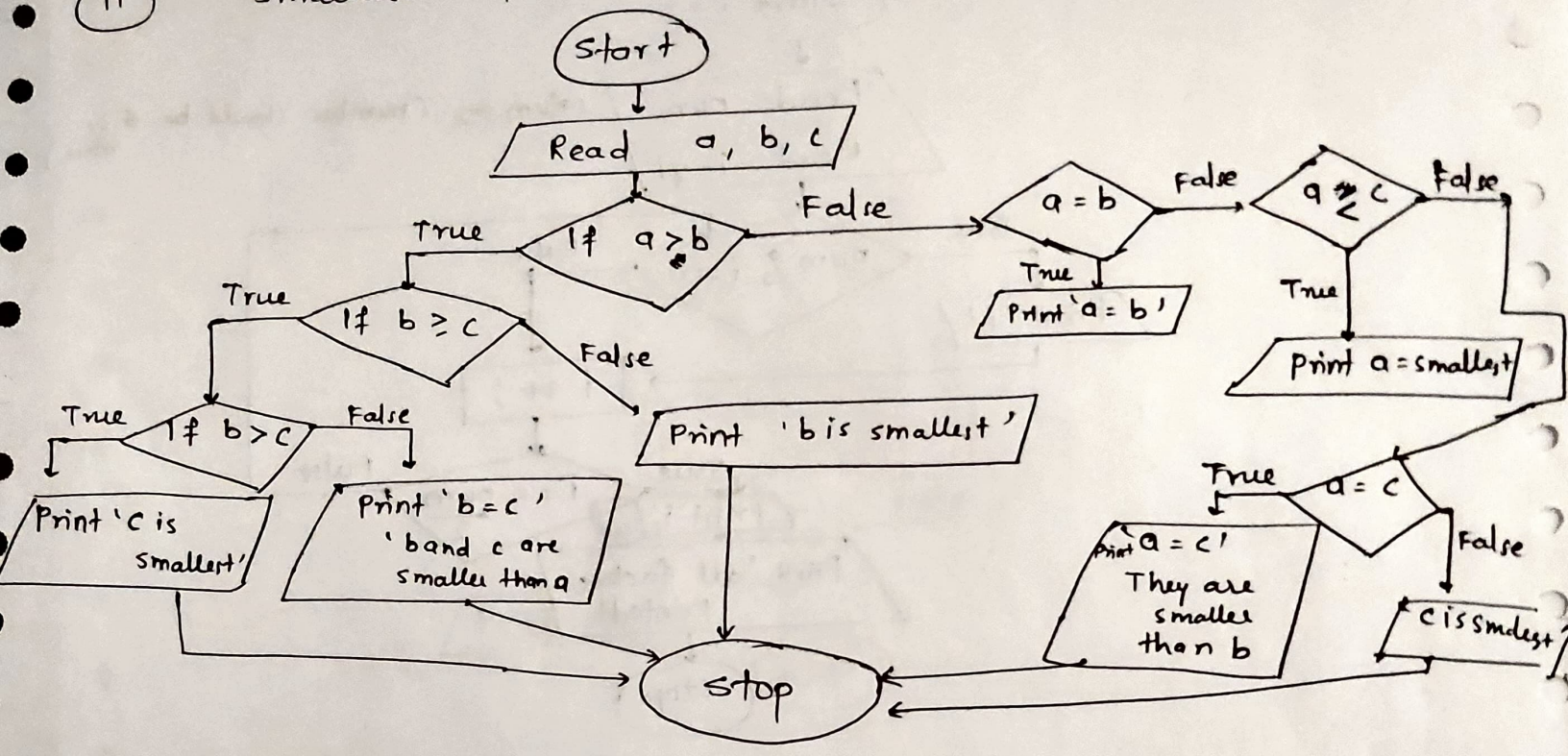
(9) Factors of a given no:



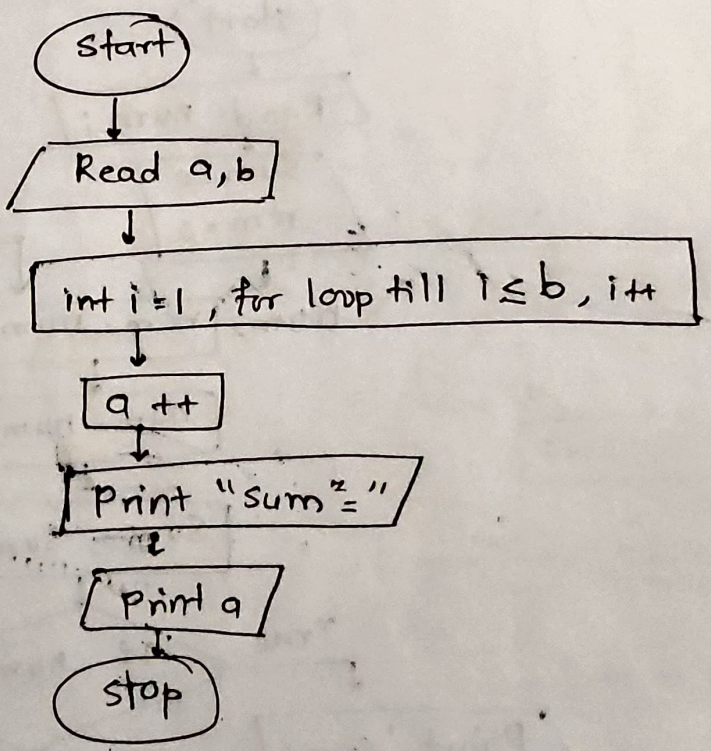
(10) Sum of digits of a num.



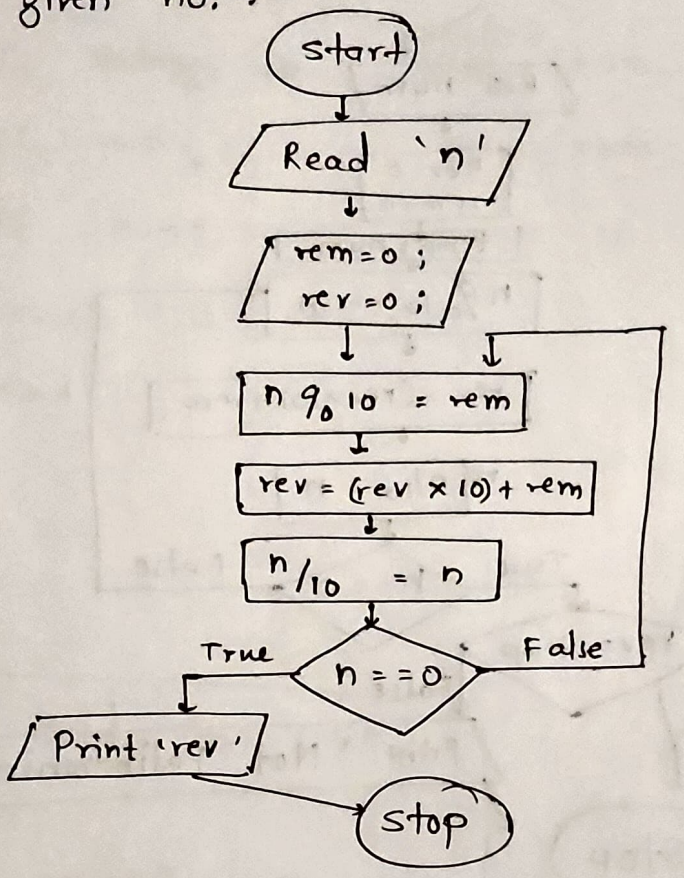
(11) Smallest of 3 nos :



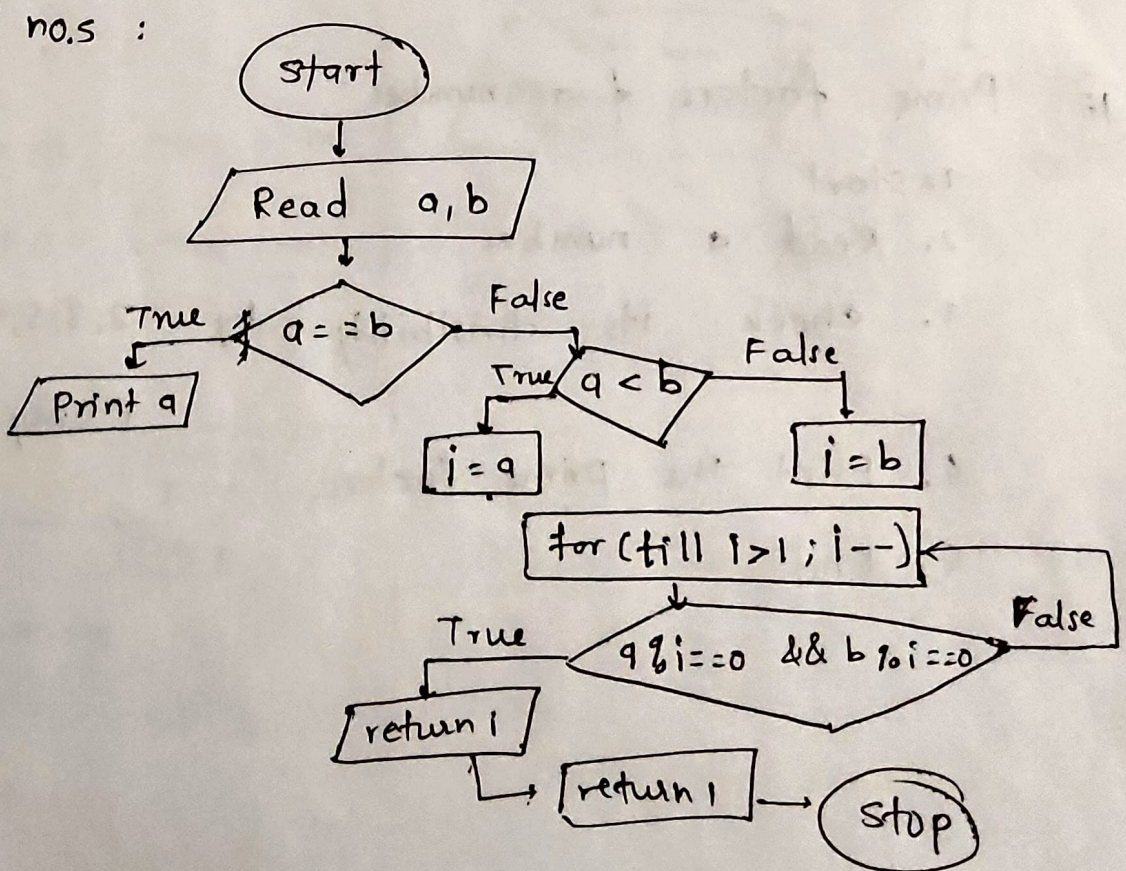
(12) Addition of two no. without using arithmetic operations.



(13) Reverse given no. :



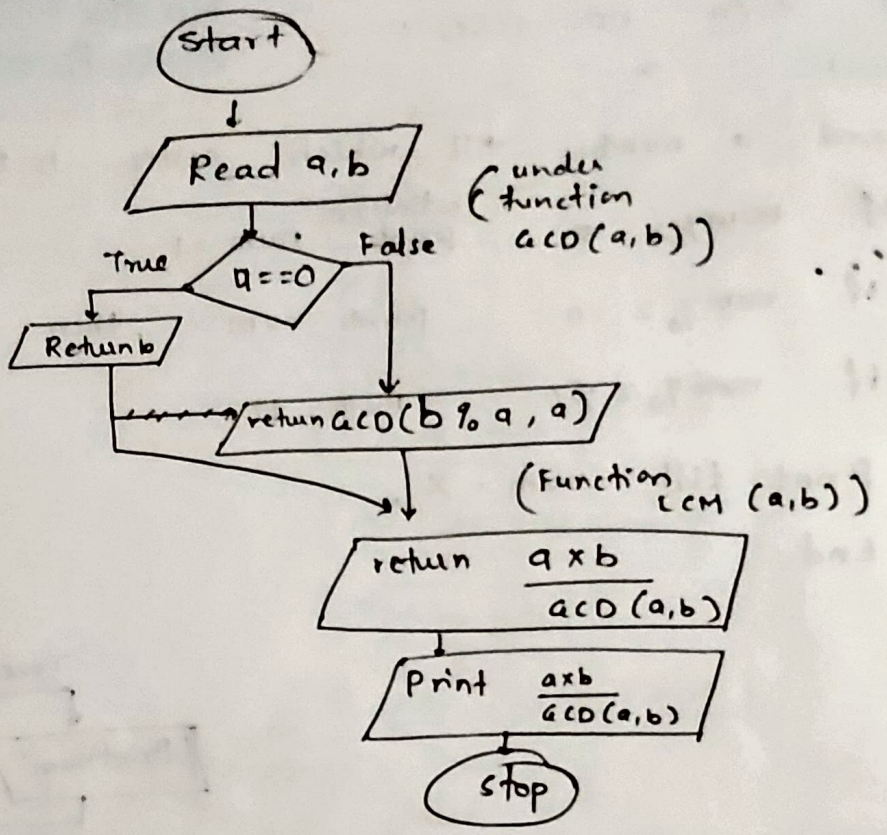
(14) GCD of a^2 nos :



(15) LCM of two given numbers:

first find GCD, then

$$LCM = \frac{num_1 \times num_2}{(GCD \text{ of } 2 \text{ no.})}$$



(16) LCM of two numbers using the Prime Factors method:

(1) Start

(2) Taken input of 2 numbers

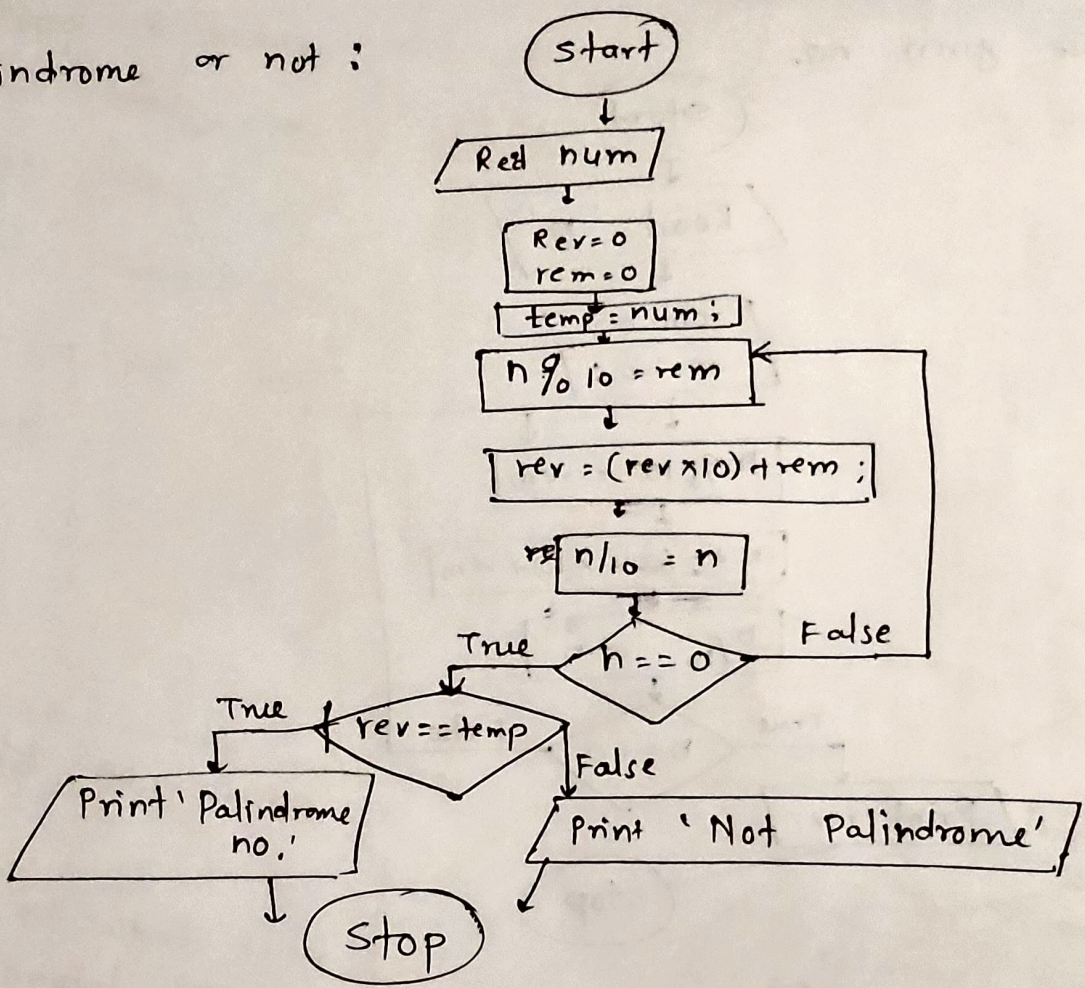
(3) Find prime factors of both no.s, then find union of all those factors.

~~(common factors of both)~~

(4) Print the product of elements which are in union

(5) End.

(17) Palindrome or not :

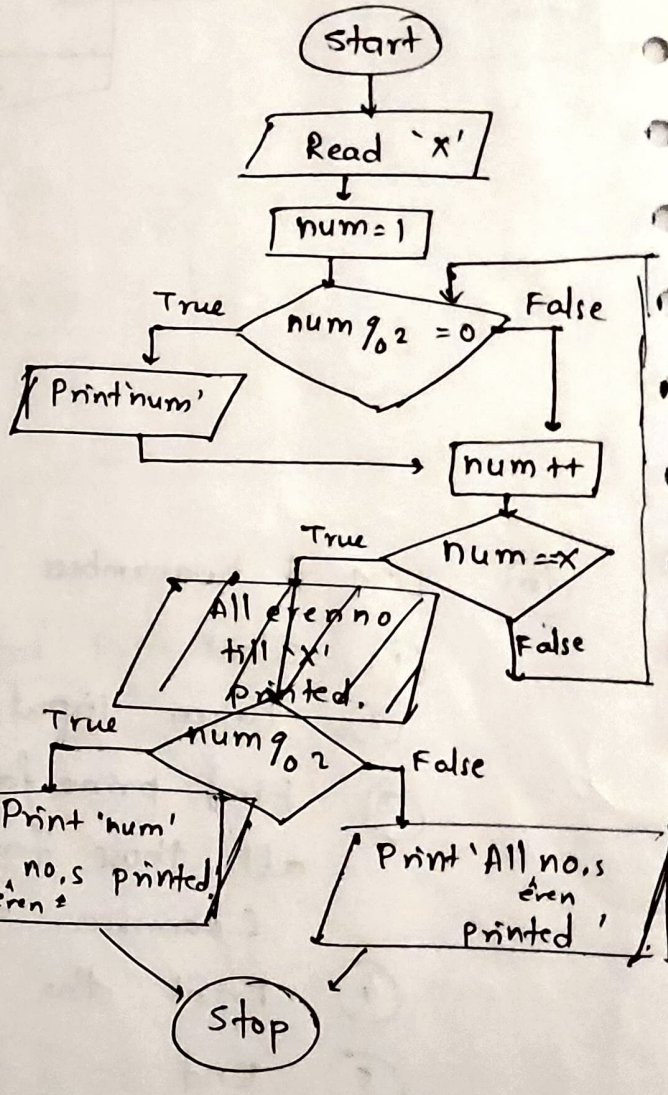


(18) Prime factors of a number :

1. Start
2. Read a number :
3. check its divisibility by, 2, 3, 5, 7, 11, ..., $\frac{\text{number}}{2}$.
   (only prime no.s)
4. Print the prime factors.
5. End

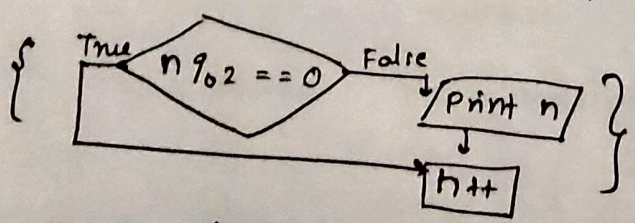
(19) Print even no. series.:

1. start
2. Read a number till which series is to be printed. 'X'
3. ~~If~~ num % 2 = 0, ~~print~~ initialize num = 1
4. If num % 2 = 0, print num, then num ++,
   if num % 2 ≠ 0, num ++
5. Print till num = X.
6. End.



(20) Print odd no.s series:

1. start
2. Read no. till which series is to be printed 'X'.
3. Initialize n = 1
4. - If n % 2 == 0, then n ++,
   - If n % 2 ≠ 0, then print n, (i.e. != 0) n ++



5. Print till num = X
6. End.