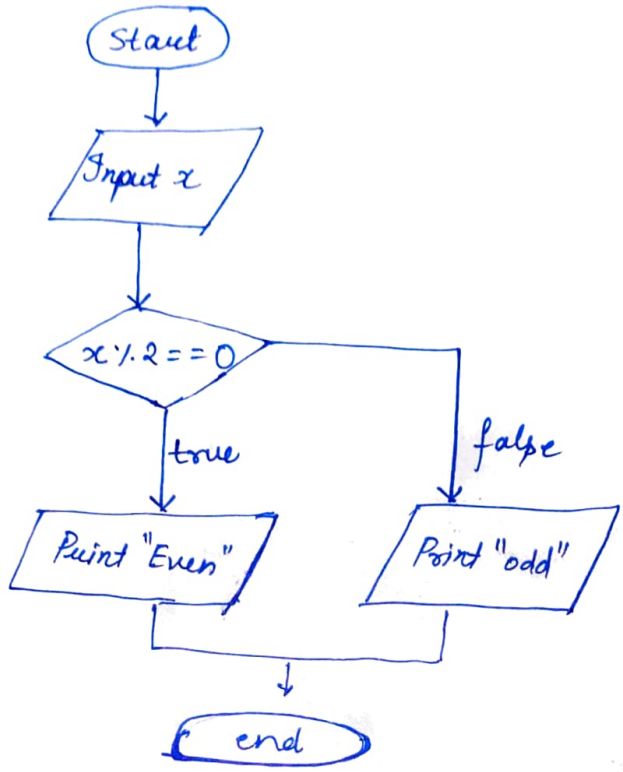
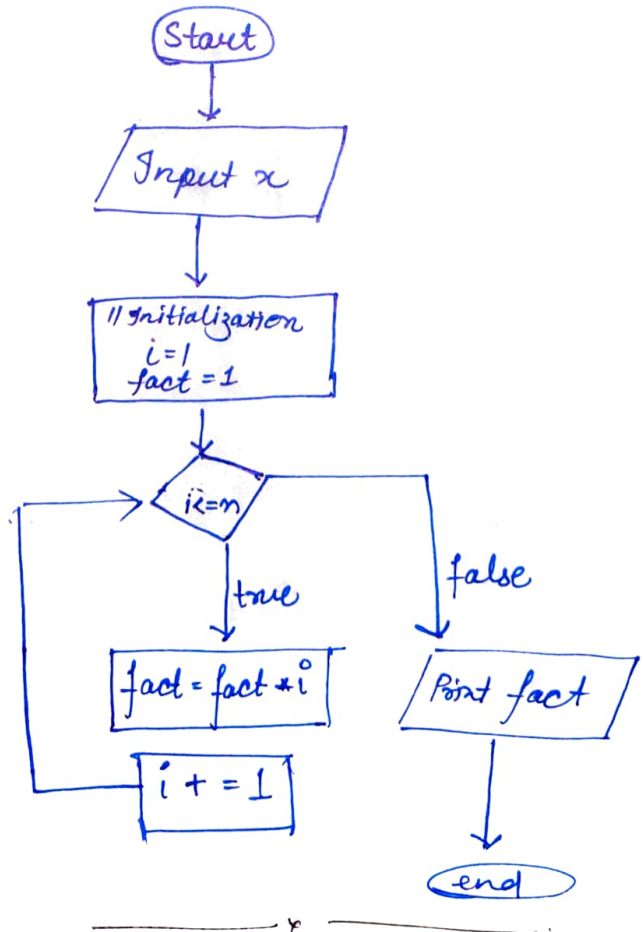
Assignment-1

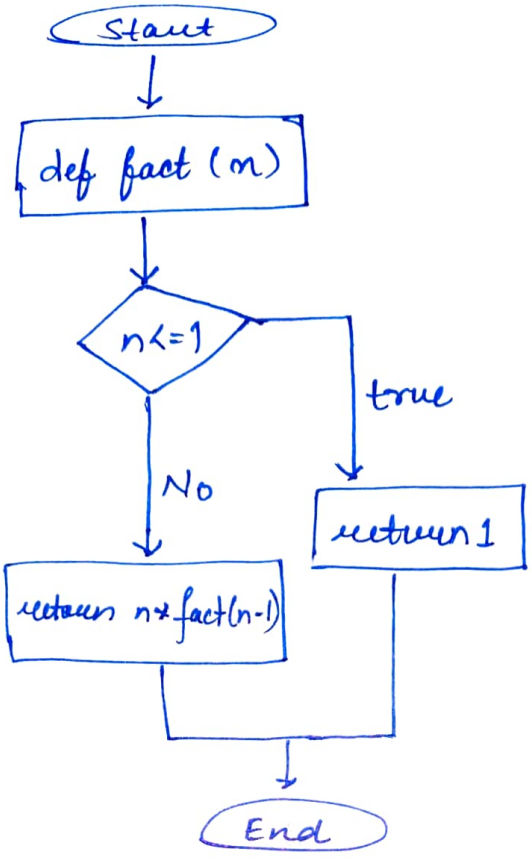
① Even or odd :-



② Factorial :-



③ factorial using recursion -



Assuming user providing 'n' value in main function and then call 'fact' function in order to calculate factorial of a given no. n

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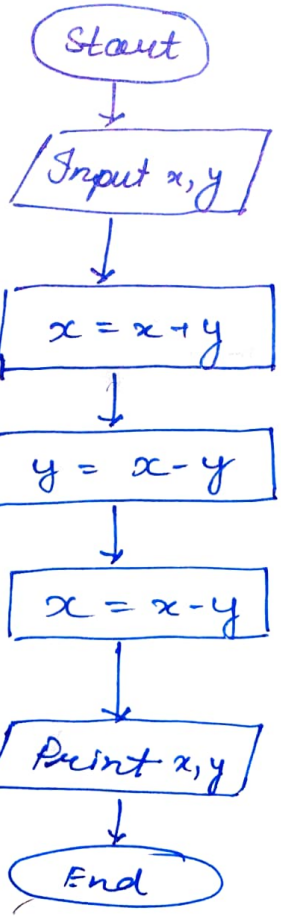
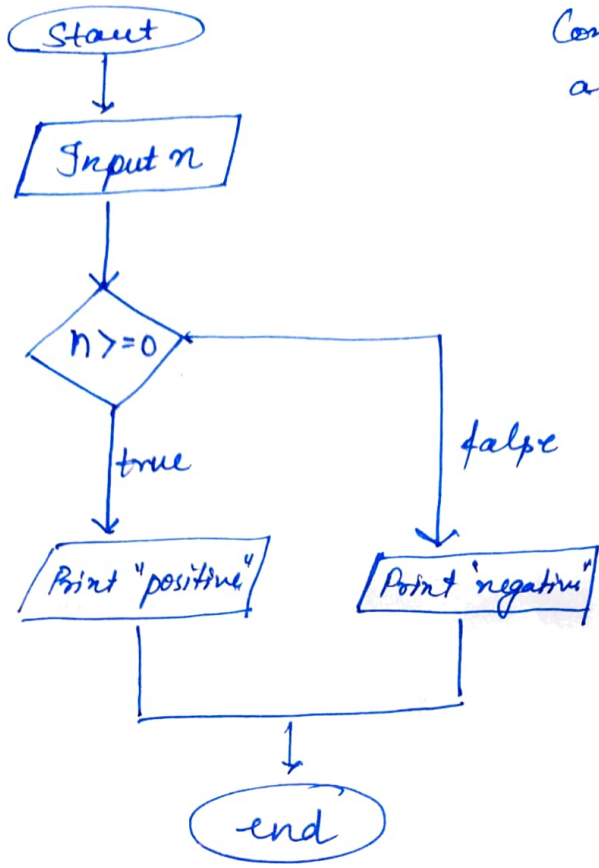
④ Swap w/o using 3rd variable -



⑤ Given no. is positive or negative -



Considering '0' as positive no.

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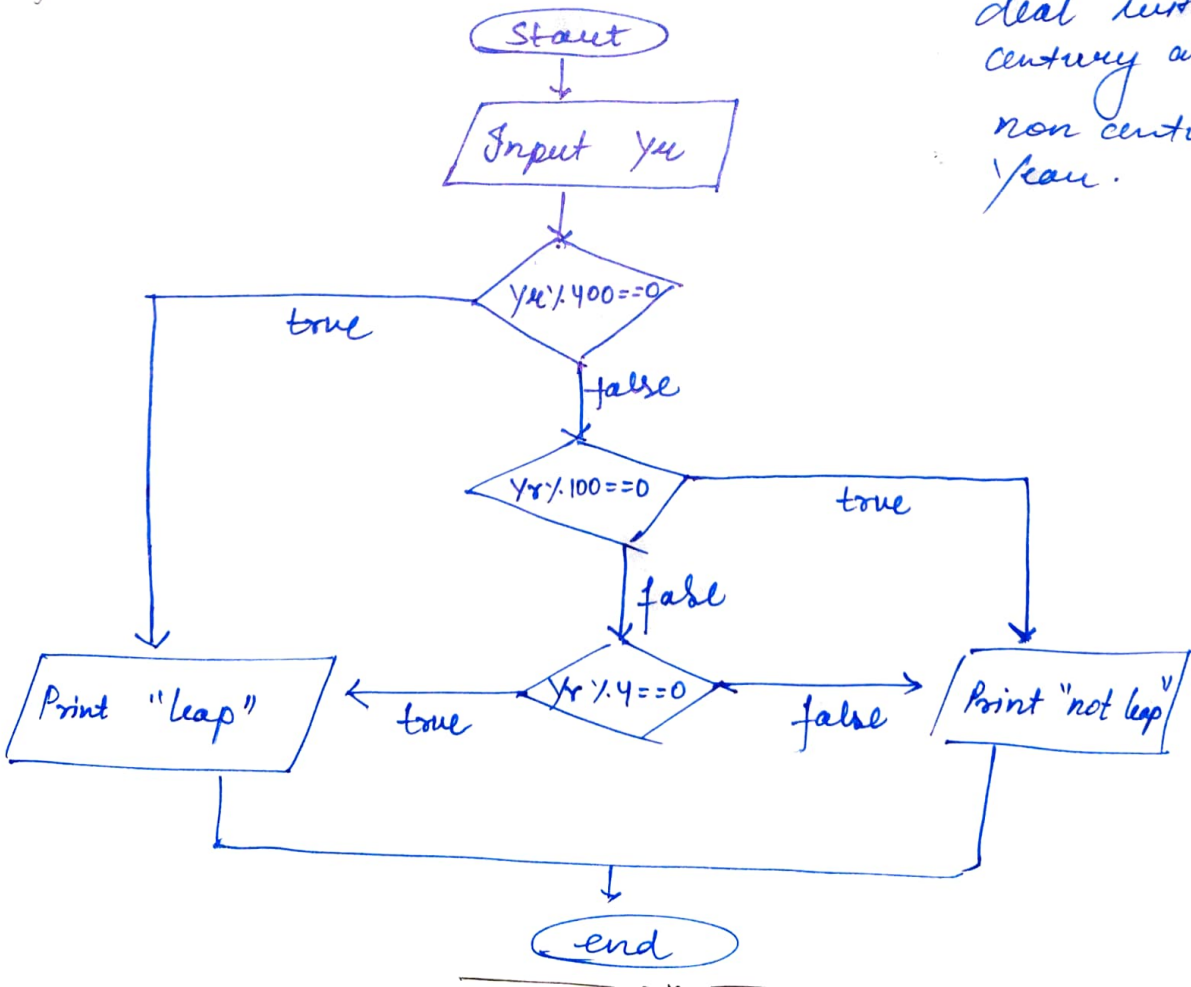
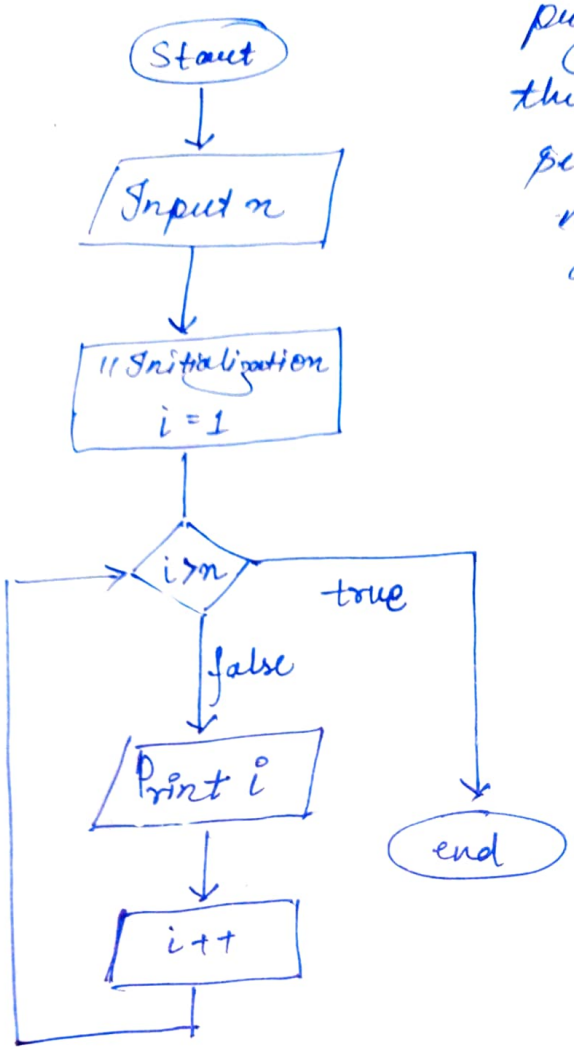
⑥ Year is leap or not -



deal with century and non century year.

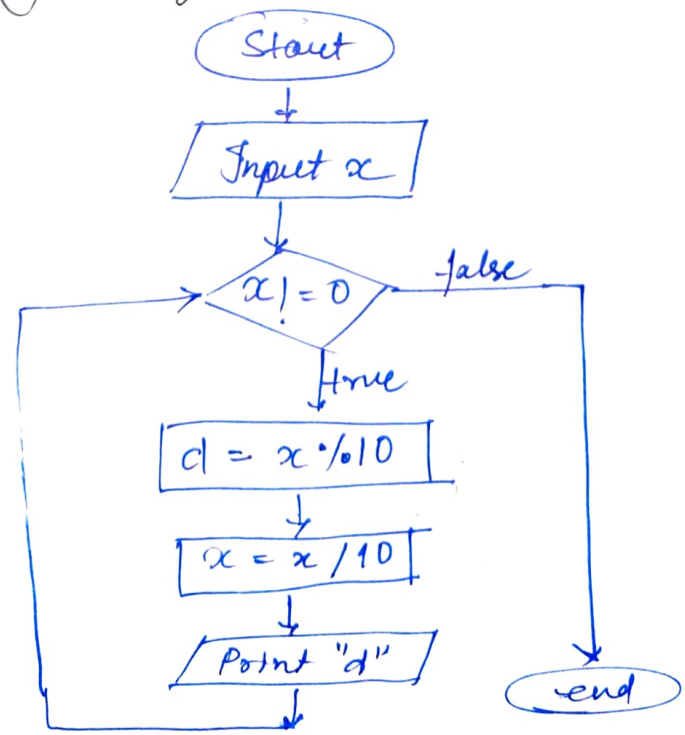
⑦ 1 to 10 w/o using loop -

flow chart looks like I am using loop ; but the actual program can be coded using the goto statement, which seems like loop while making a flowchart out of it.

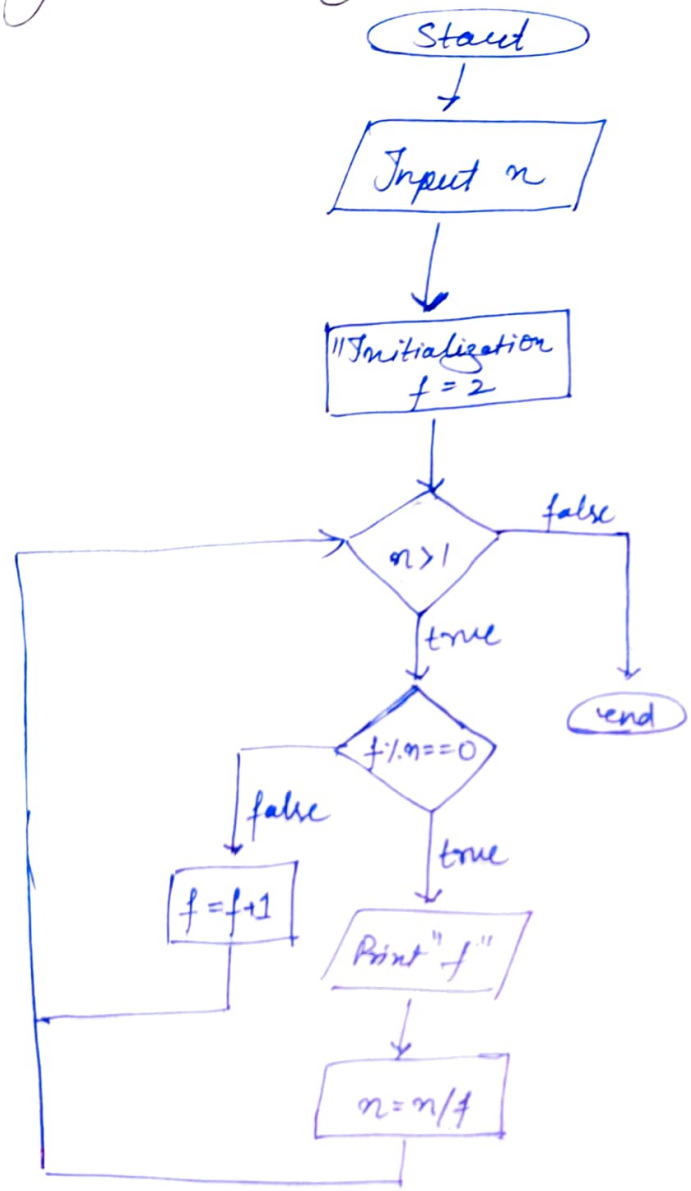


⑧ Printing digits of a no. -

"d" stands for digit.

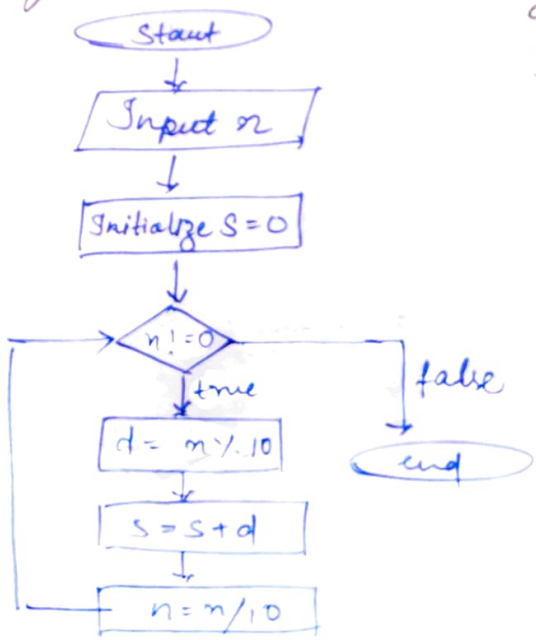


(9) All factors of a given number →

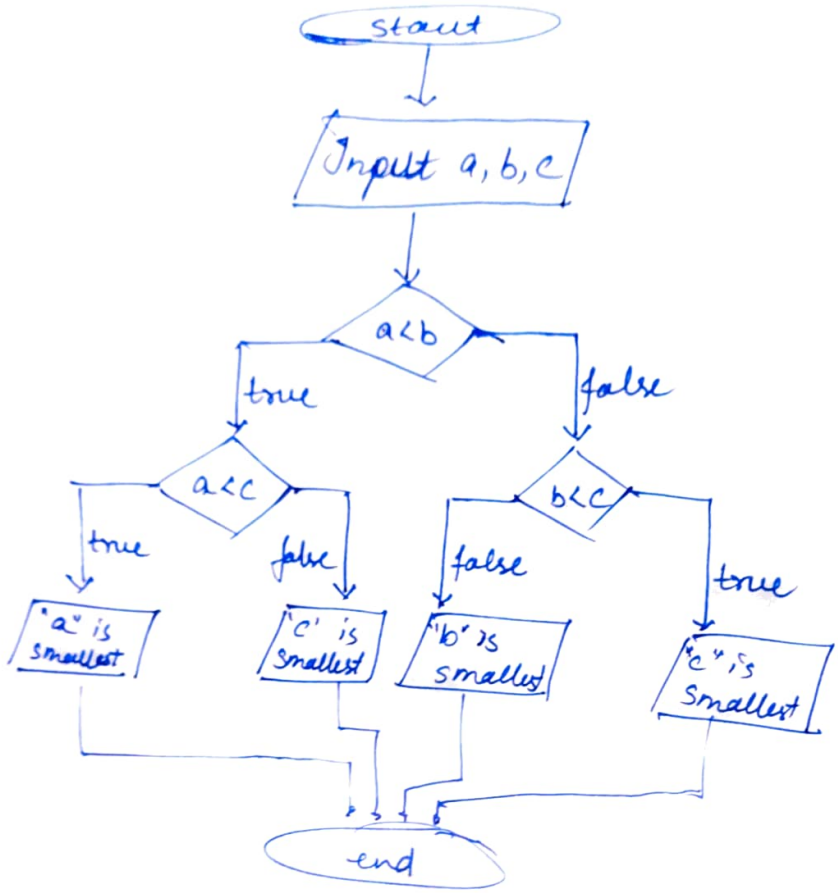


(10) Sum of digits of a number -

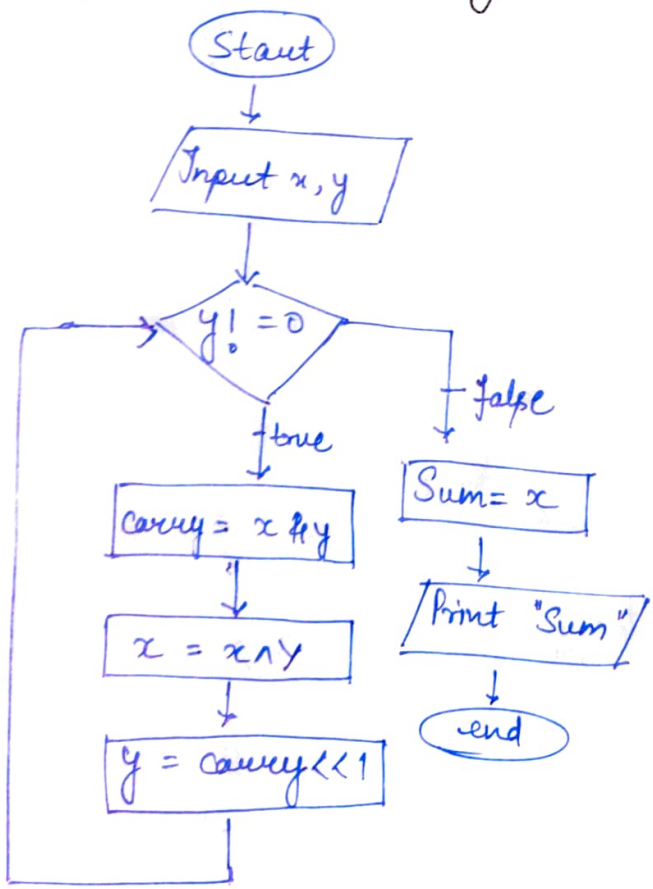
d is the digit
S is the sum of digits



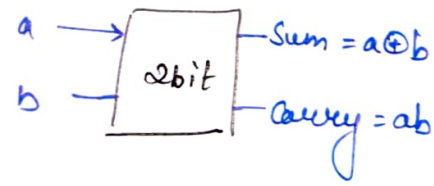
(11) smallest among a, b, c?



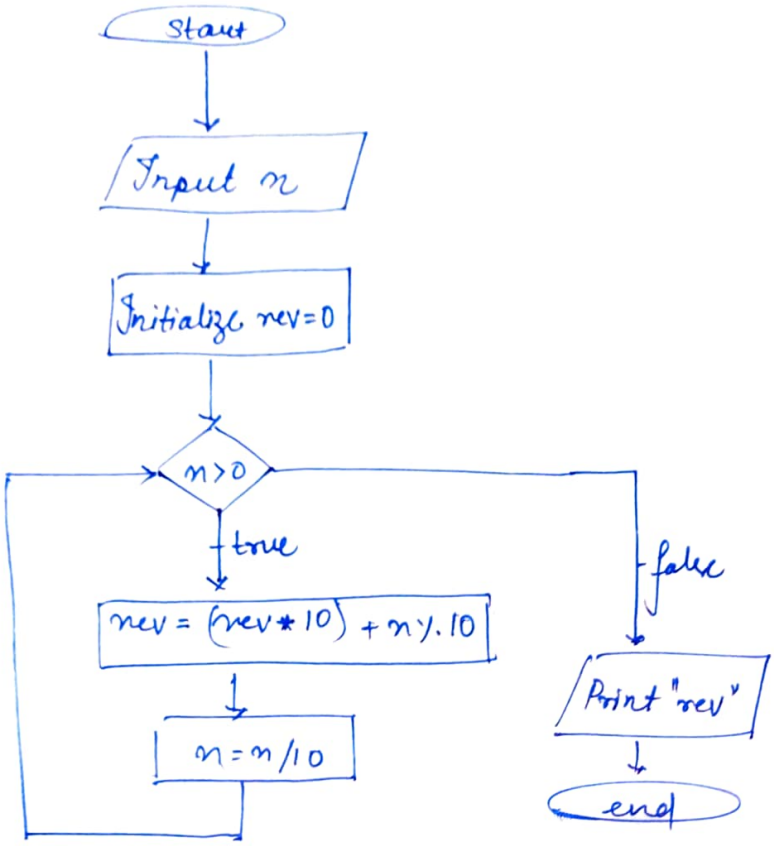
(12) adding 2 no.s w/o using arithmetic operators -



HALF Adder

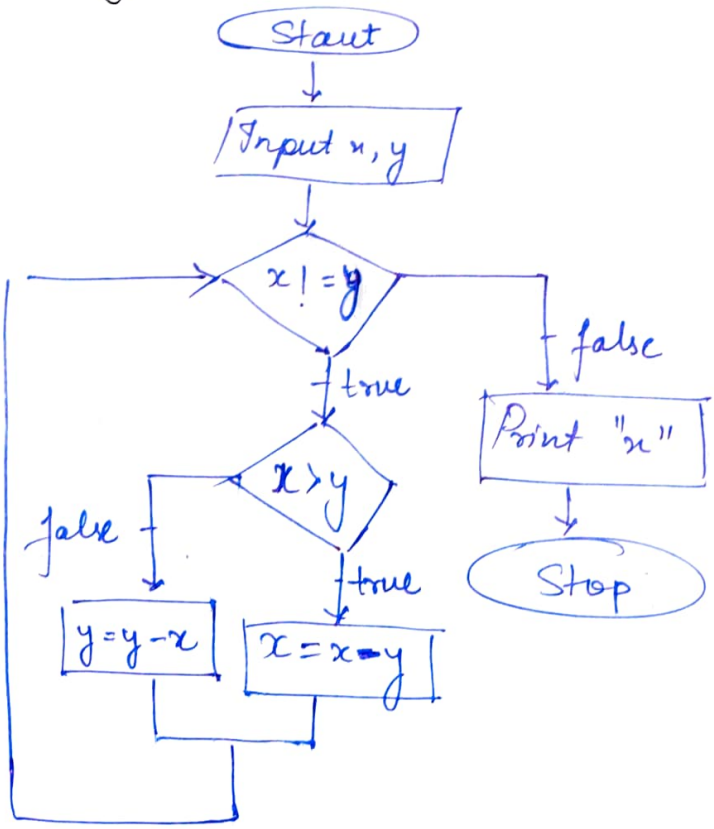


(13) Reverse a number -

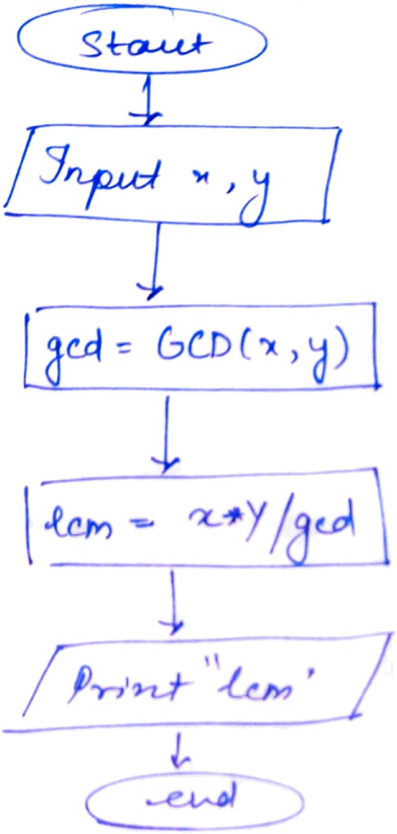


(14) Finding GCD of 2 nos

Euler Theorem is used



(15) Print LCM of 2 given no.

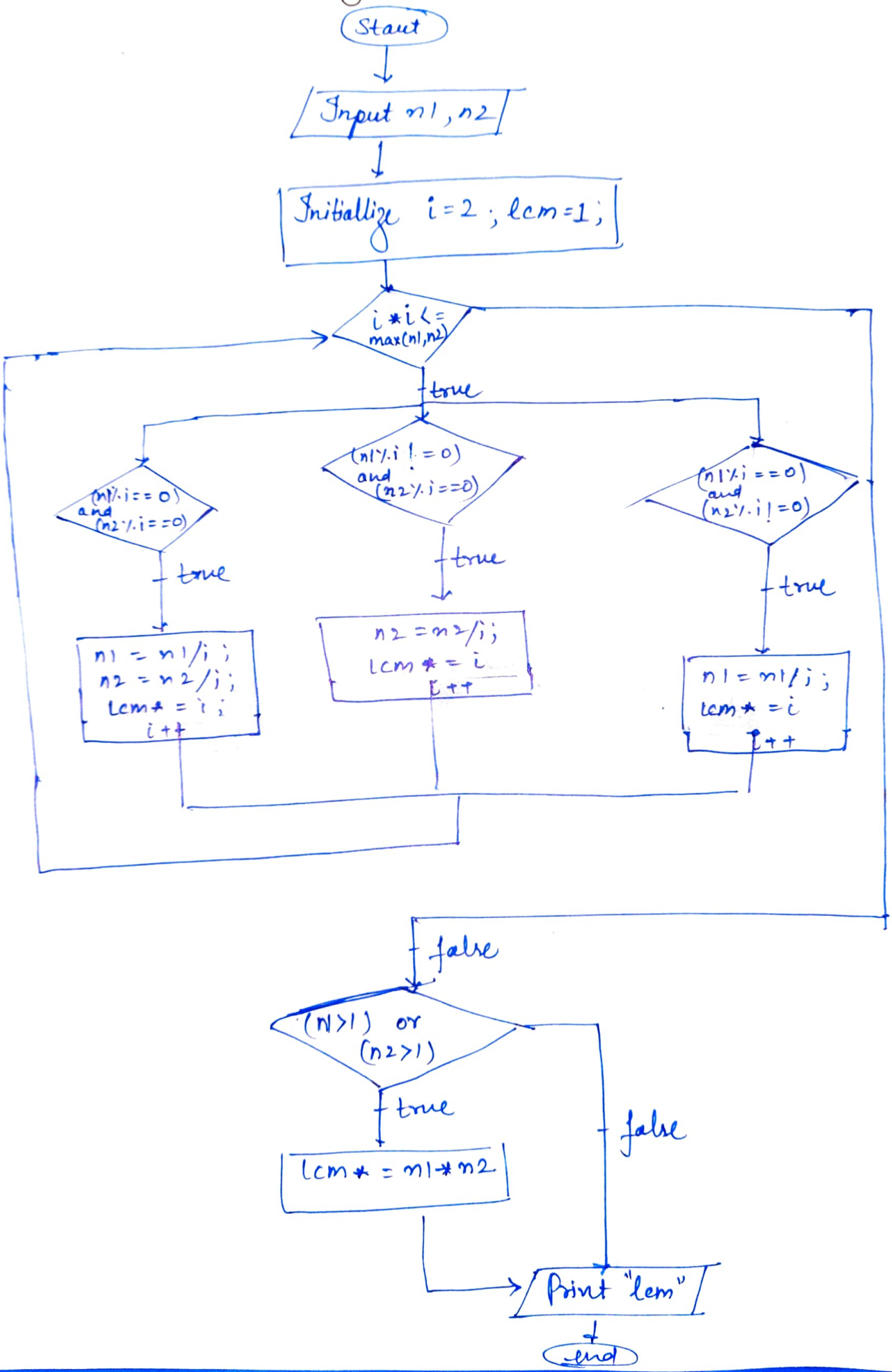


// using Que 14

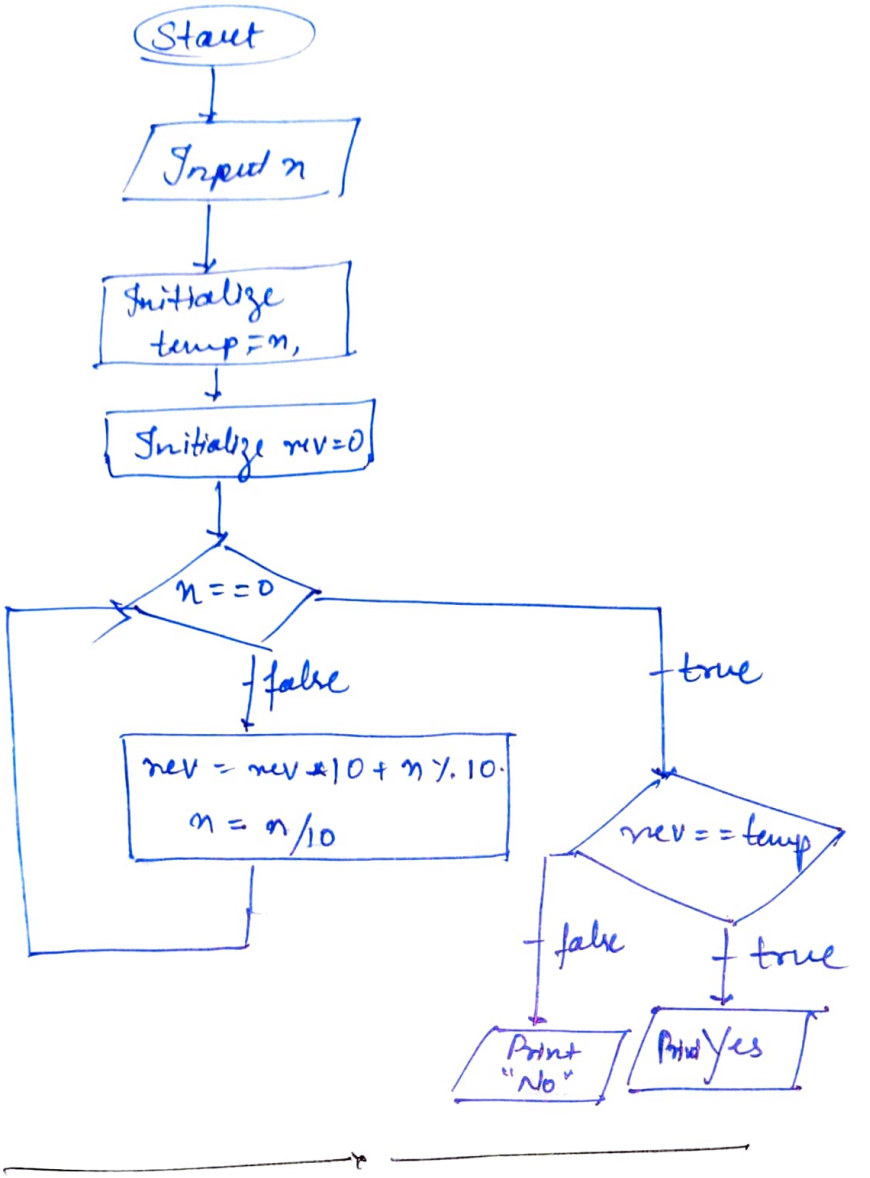
using formula.

HCF(a,b) x LCM(a,b) = a*b

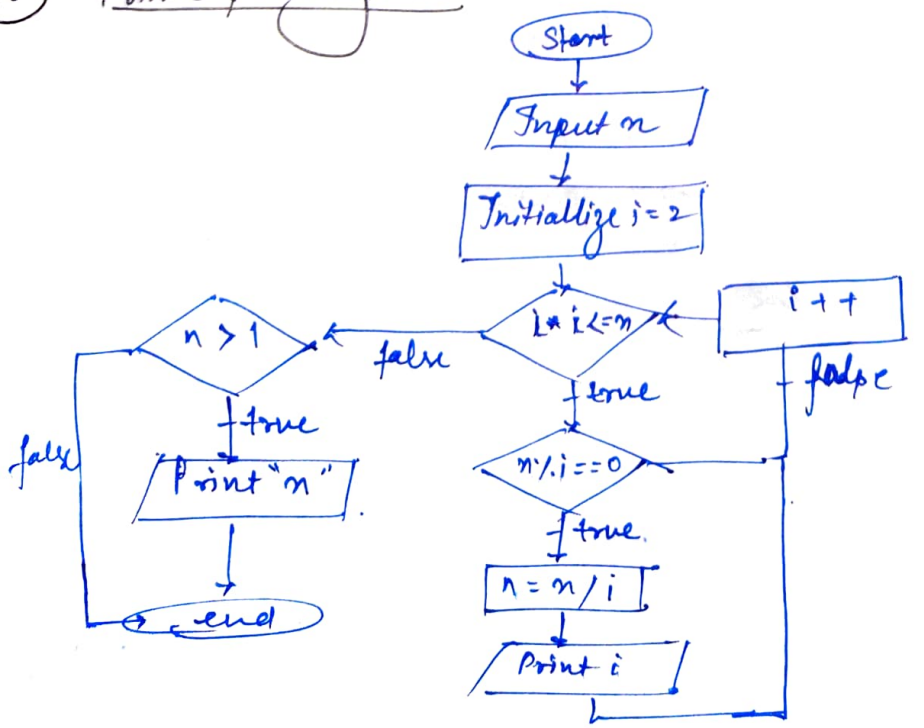
(16) LCM using prime factor -



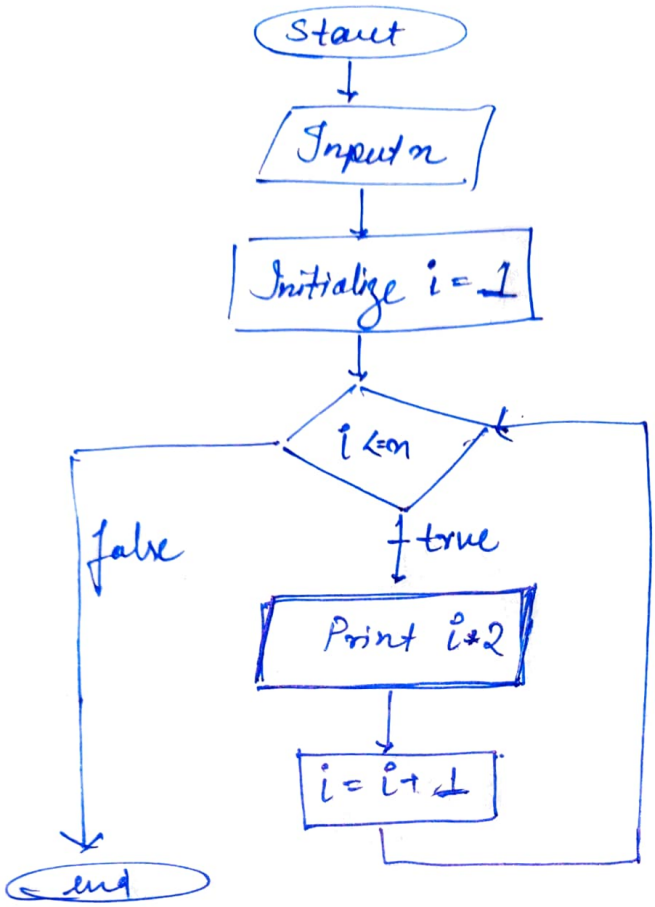
(17) Palindrome



(18) Prime factorization -



(19) Print even series - 2, 4, 6, 8 - - - -



// for upto how many terms you want to print series

(20) Print odd series - 1, 3, 5 - - -