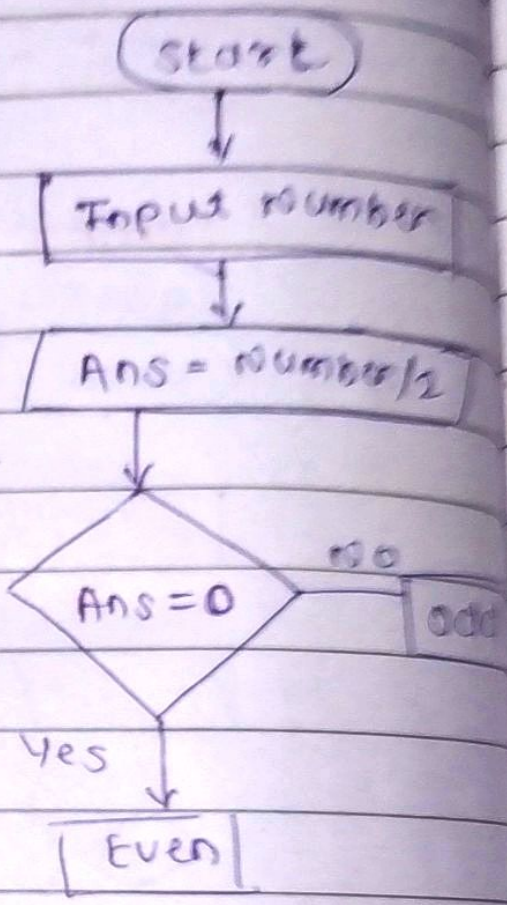
Assingment 1

1) Even / odd

Algo

1 : start the programm
2 : Input number
3 : number ÷ 2 = Ans
4 : Ans = 0, print
Even
5 : Ans ≠ 0
print odd
6 : stop

Flowchart



) Find factorial of Number

start the program
Input number = n
actorial = 1, i = 1
fact = fact x i
i = i + 1
print factorial
stop

Assignment 1

(4) swap two numbers ~~us~~ without using third variable approach

step 1 → start

2 → input numbers

$x = 10$

$y = 20$

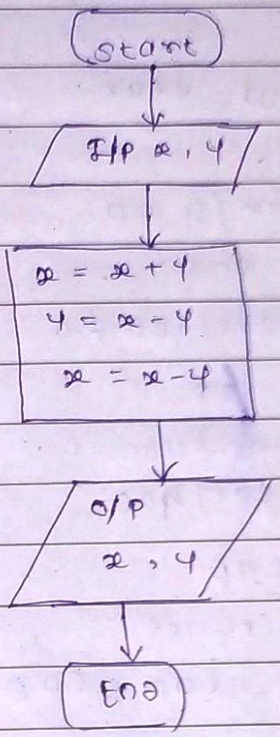
3 → $x = x + y = 30$

$y = x - y = 10$

$x = x - y = 20$

4 → print $x = 20$

print $y = 10$



(5) How to check given number +/ve

step 1 : start

2 : Input number

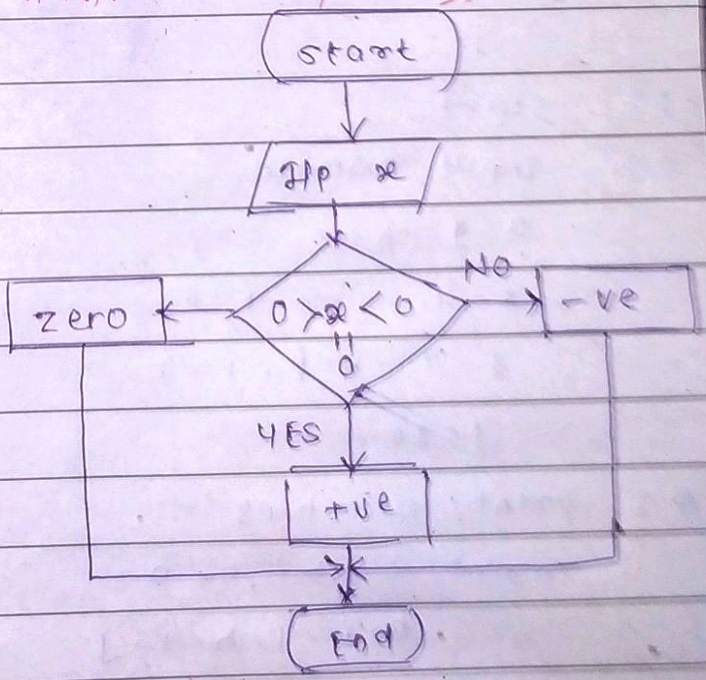
3 : checking relation

0 > number < 0

4 : positive if num > 0

Negative if num < 0

5 : End



⑥ leap year or NOT ?

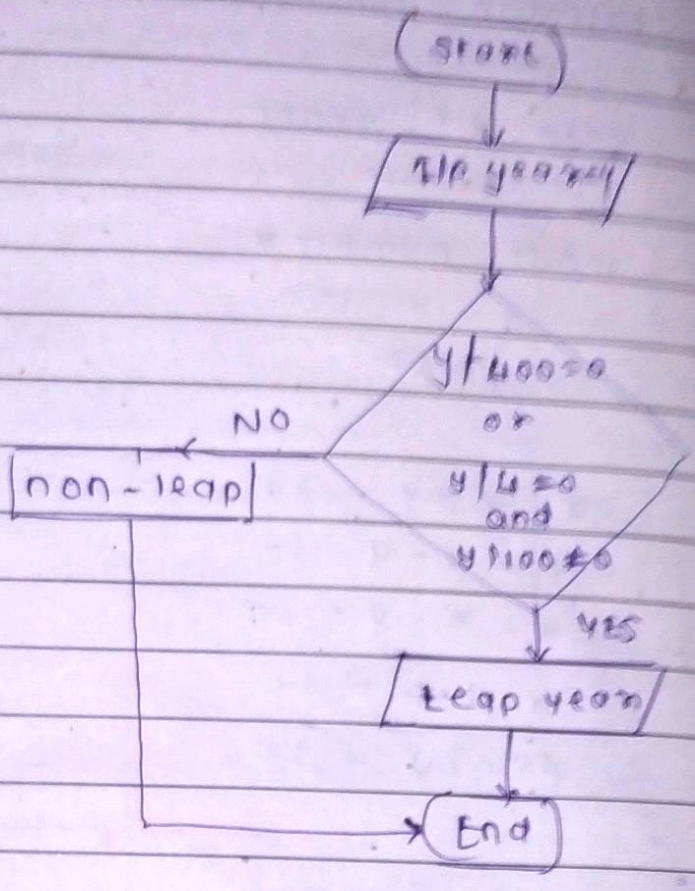
1: start

2: Input year

3: year/4 = 0
and
year/100 ≠ 0
or
year/400 = 0
year/400

4: leap
otherwise
non-leap year

5: End



⑦ print number 1 to 10 without using loop

1: start

2: Input number
a=1, b=2, c=3
d=4, e=5, f=6
g=7, h=8, i=9
j=10

3: print numbers
print a, b, c, d,
e, f, g, h, i, j

4: End

⑧ print digits of given number

1: Start

2: Input 12345.

3: print 1st digit

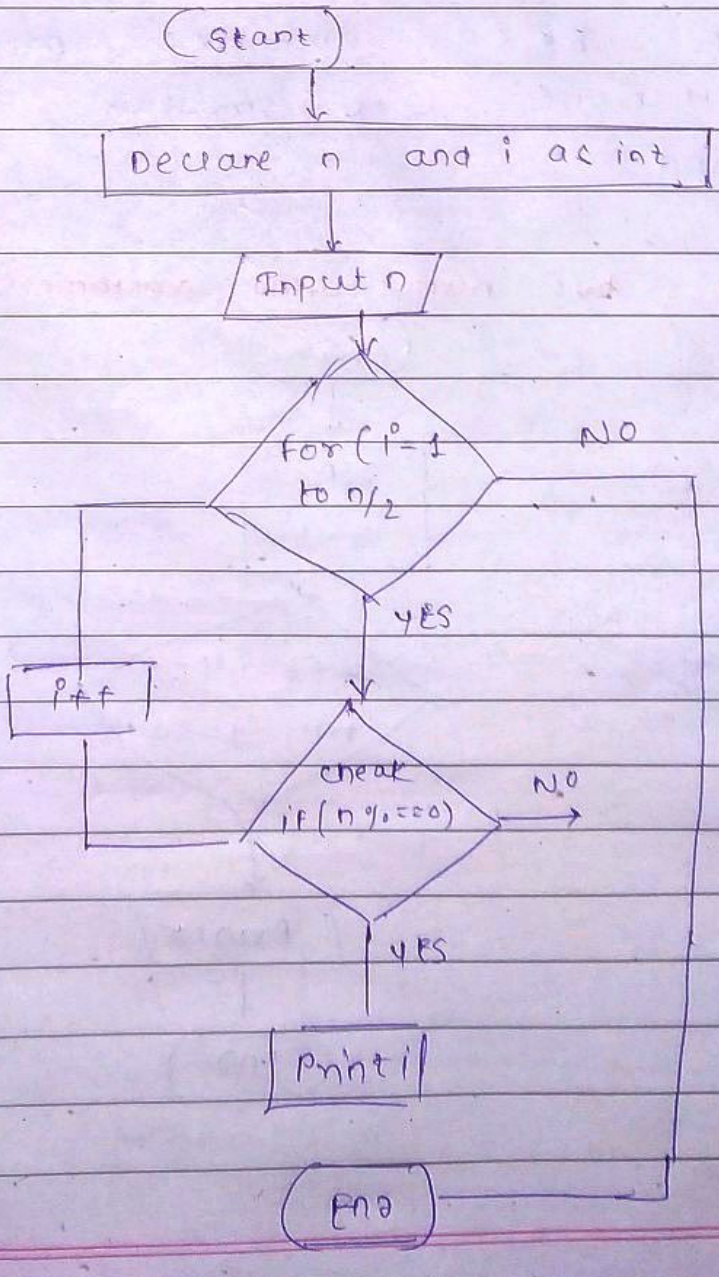
print 1st digit + 1

⋮

print nth digit

4: End

⑨ write to print all factors of given number



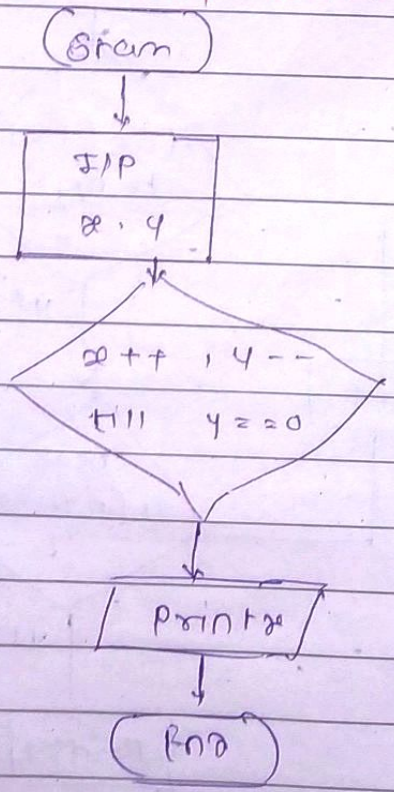
10> Find sum of digit of given number

Step 1: Start
2: input number
3: declare j=0
4: check (number > 0)
5: number % 10 and add answer to j
6: devide number / 10
7: return sum
8: end

11> Find smallest of three number

1: Start
2: input 3 number a, b, c
3: check a < b and a < c print a is small
4: if b < a and b < c print b is small
5: otherwise c is small
6: end

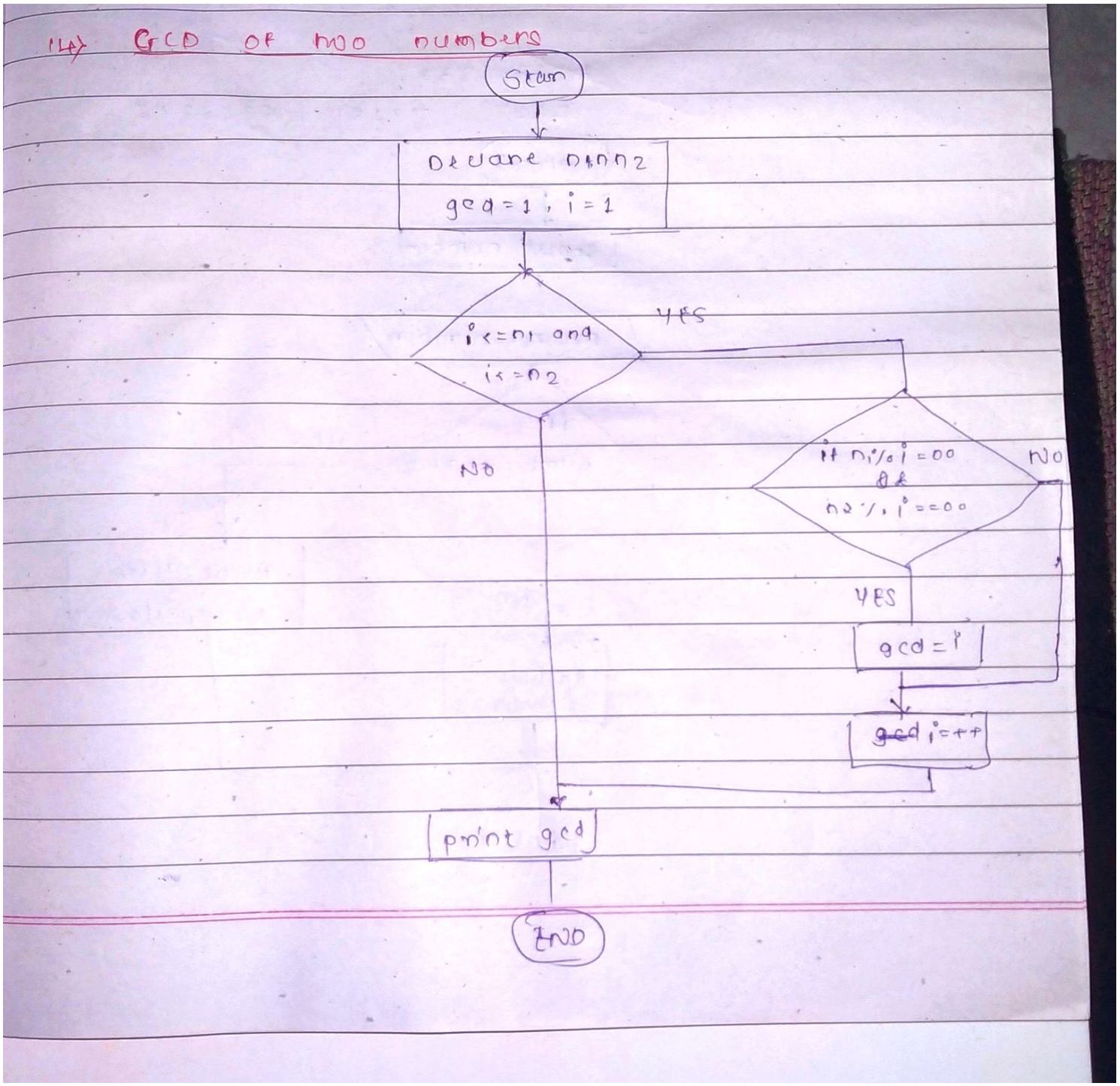
12> add two num using arithmetic operation



13) to reverse given number

1) start
2) acept num
3) sum = 0
4) rem = num % 10
5) sum = (sum x 10) + rem
   num = num / 10
5) If (num > 0) then
   goto step (4)
6) display reversed num ie sum
7) stop

14) GCD of two numbers



15) LCM of two numbers

1: initialize two variables n1 = 7 and n = 35
2: find and store max(n1, n2) ie max = 35
3: if (max % n1 == 0) and (max % n2 == 0)
Then LCM = max and print it
4: if not divisible then max += 1 goto step 3 and repeat 3-4-3 until max value is found and print it

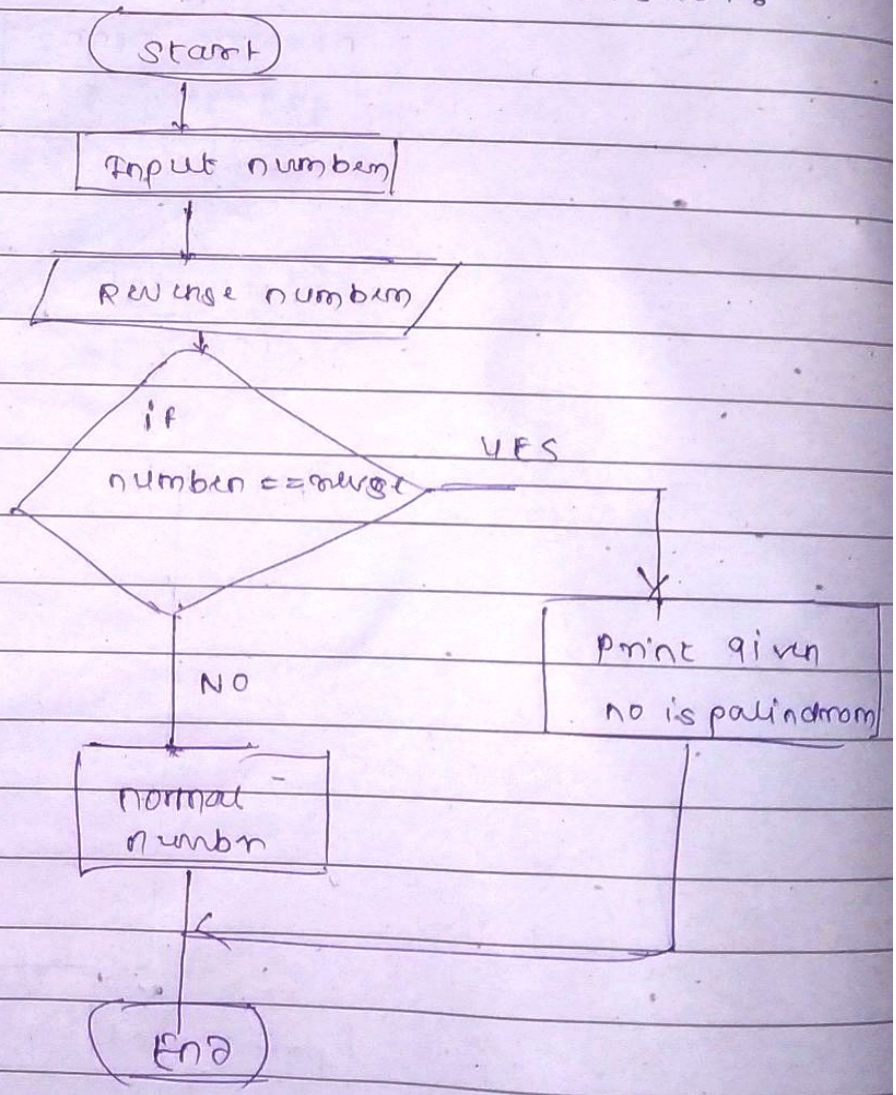
16) check whether given num is palindrome or n

Palindrome:- same from both sir

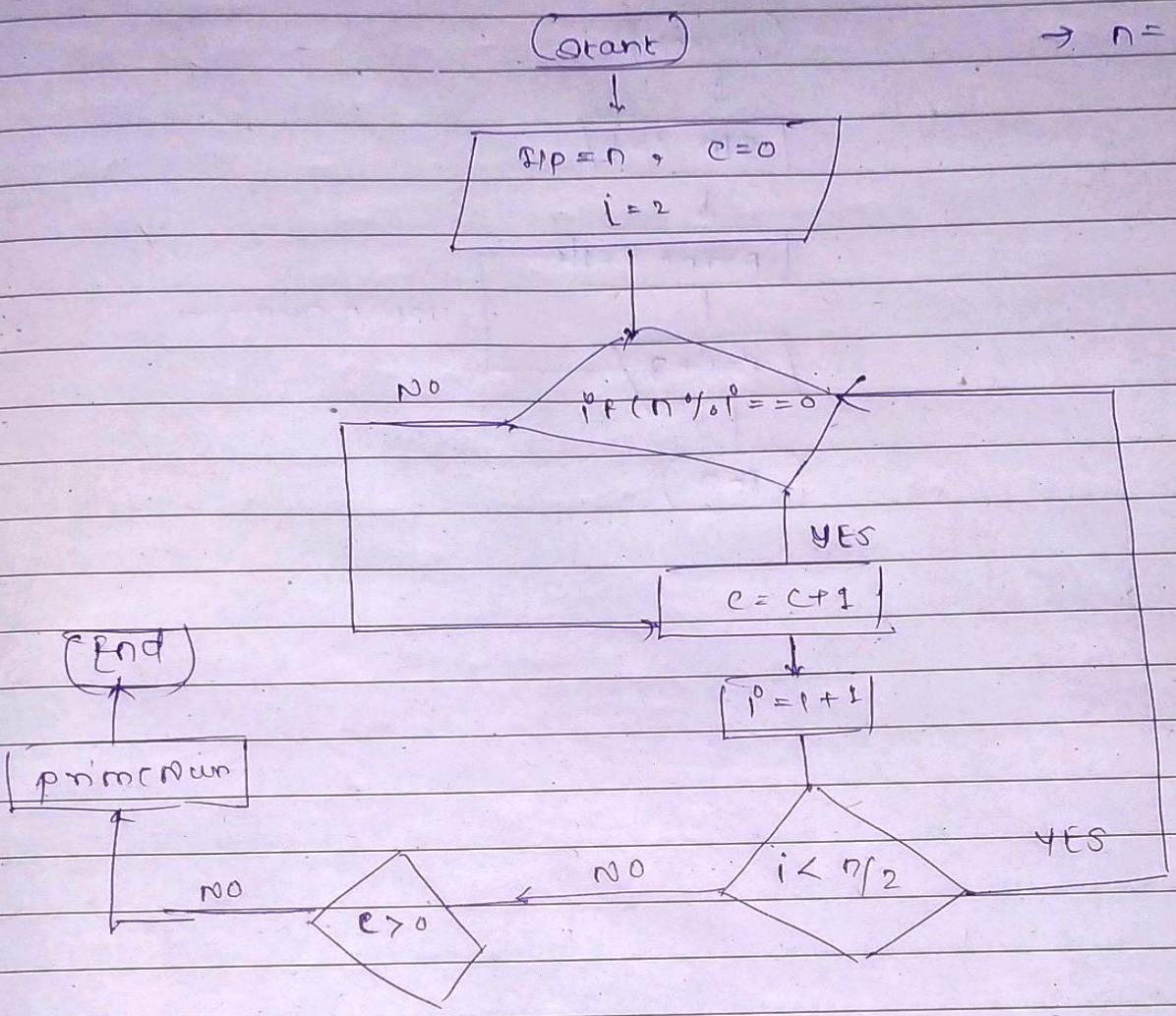
1, 2, 9

11, 22, 33 8

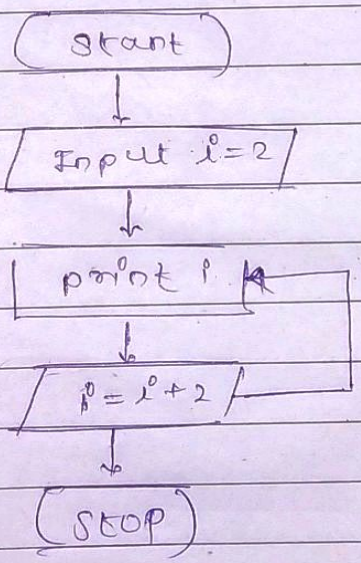
212, 75151, 6782876



cheak number is prime or not



19) print even series 2 4 6 8 10 12 14 16 - -



20) print odd series 1, 3, 5, 7, 9, 11, 13, ...