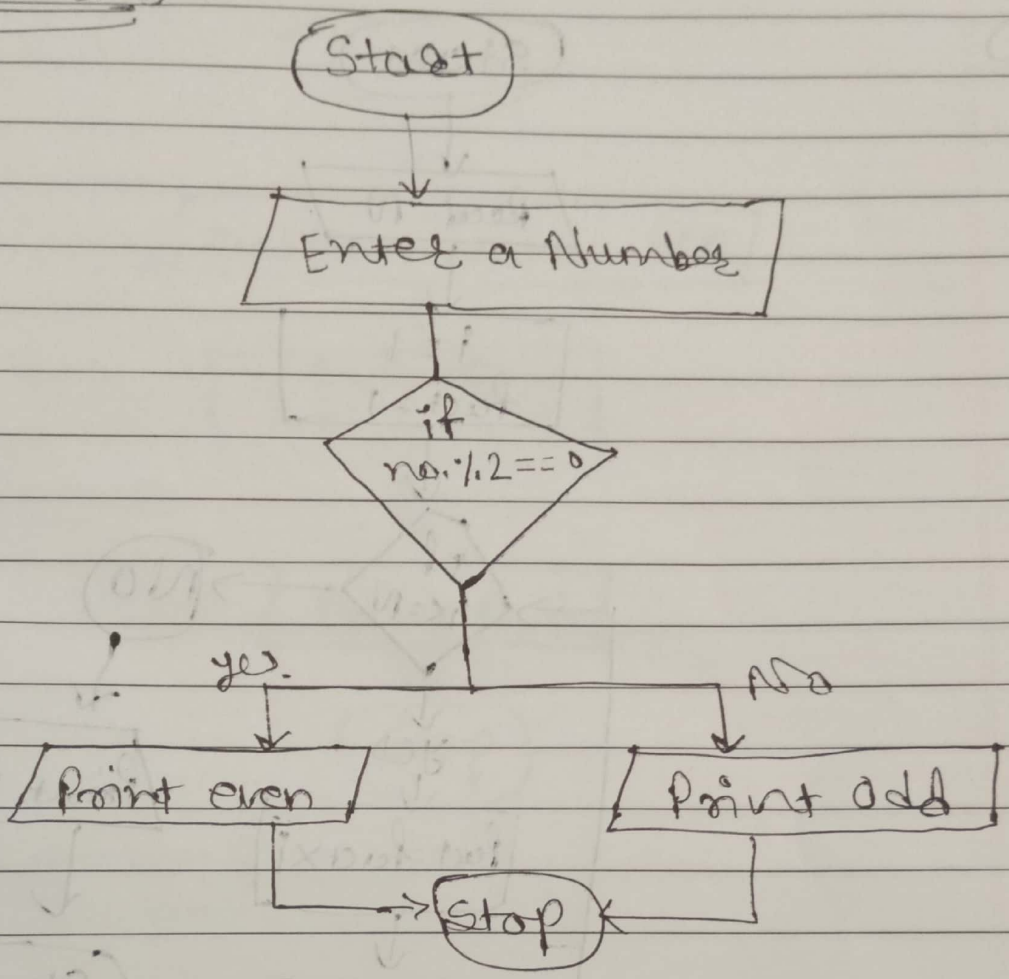
Assignment

Q.1 Check if the given number is Even or odd
Flowchart :)

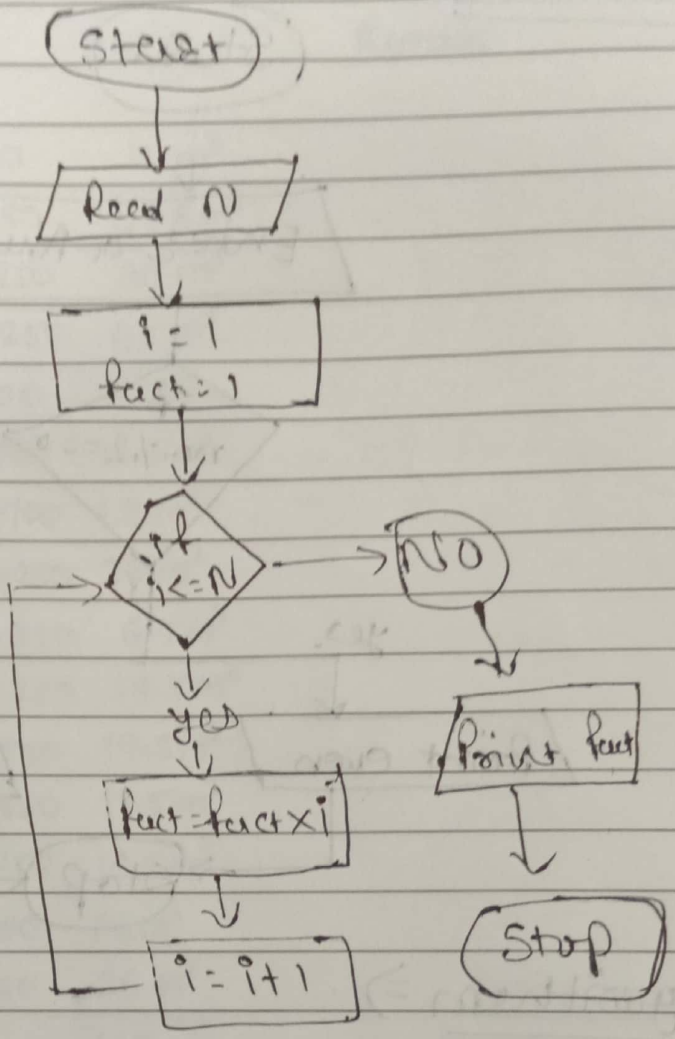


Algorithem ⇒

1. Start the program
2. Enter the number.
3. if n % 2 == 0 then no. is even
4. else no. is odd
5. display the output
6. Stop the program.

Q.2] Flowchart & algorithem for the find of factors of given no.

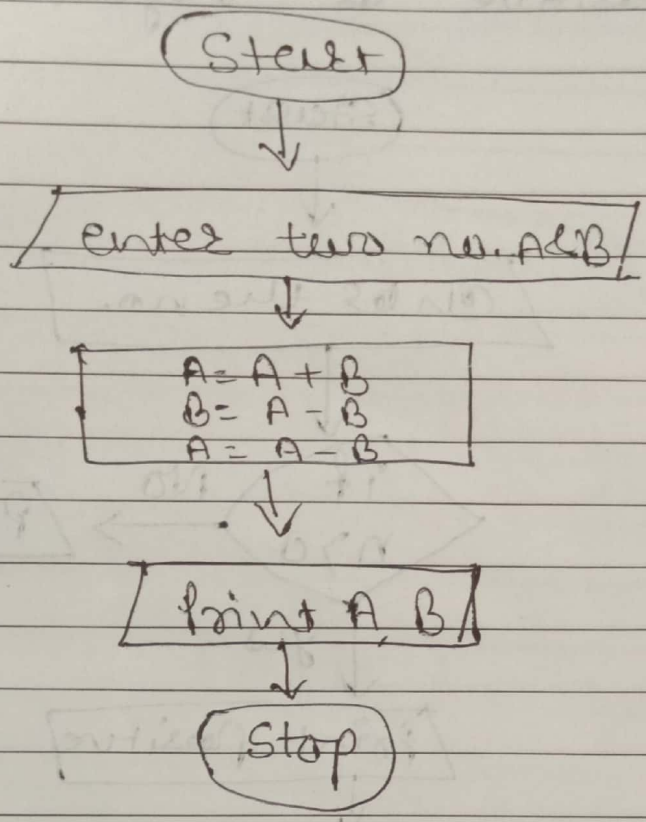
3)



Algo.3)

1. Start
2. enter the no,
3. initilization of variable i=1, fact= 1
4. if i<=N then go for yes neigther NO
5. Calculate - fact= fact x i
6. increment the i by 1 (i=i+1)
7. print fact
8. stop

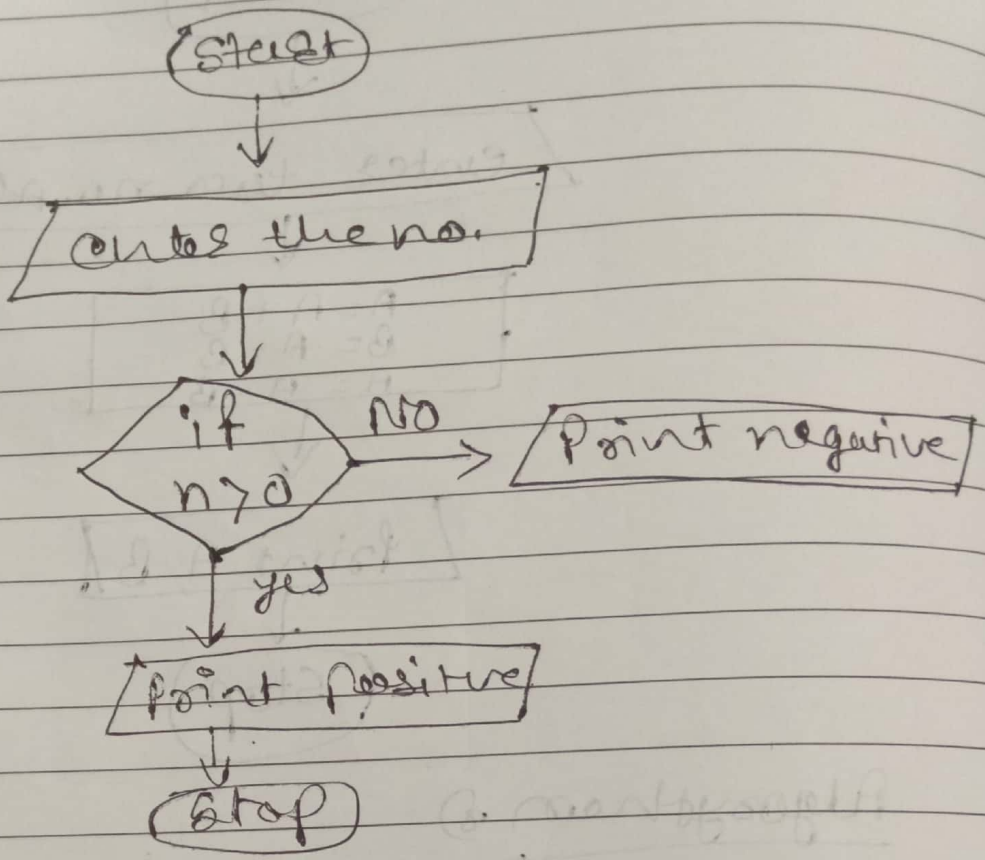
Q.3] Flowchart & Algo. for the swap of two no. without the third variable.



Algorythem :-

1. Start
2. enter two no. A, B
3. print A & B
4. A = A + B
5. B = A - B
6. A = A - B
7. Print A, B
8. End.

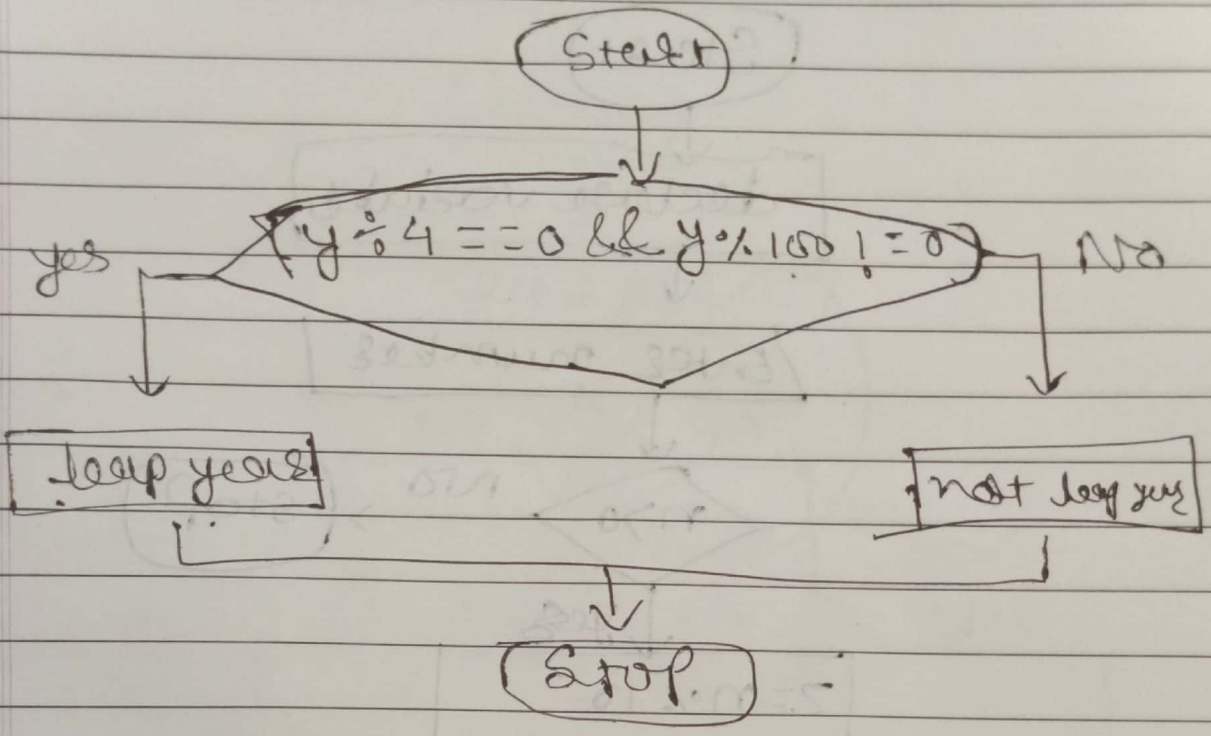
(4) Flow chart & Algo. for the given no. is positive or negative.



Algo. =)

(1) Start the programme.
(2) enter the no.
(3) if n>0 then print positive
if n<0 then print negative
(4) Stop.

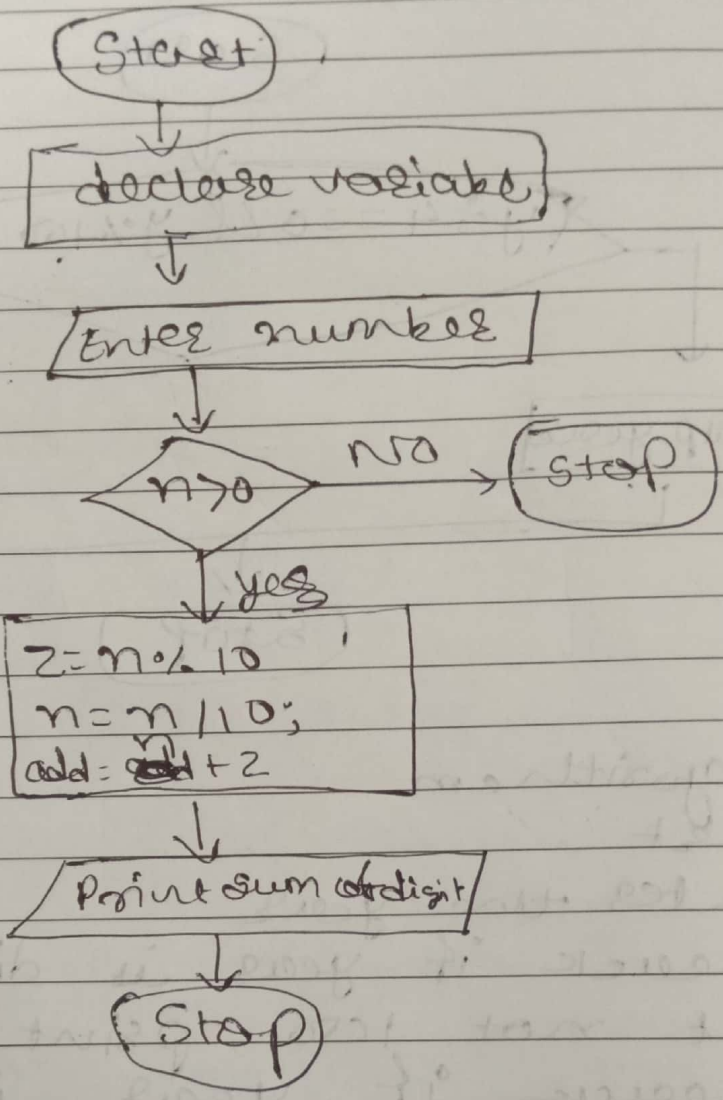
(5) Algo. for leap year or not leap year.



Algorithem.

(1) start
(2) enter the year
(3) check if year is divisible by 4 but not 100, print leap year
(4) Check if year is divisible by 400, print leap year.
(5) otherwise print not leap year.

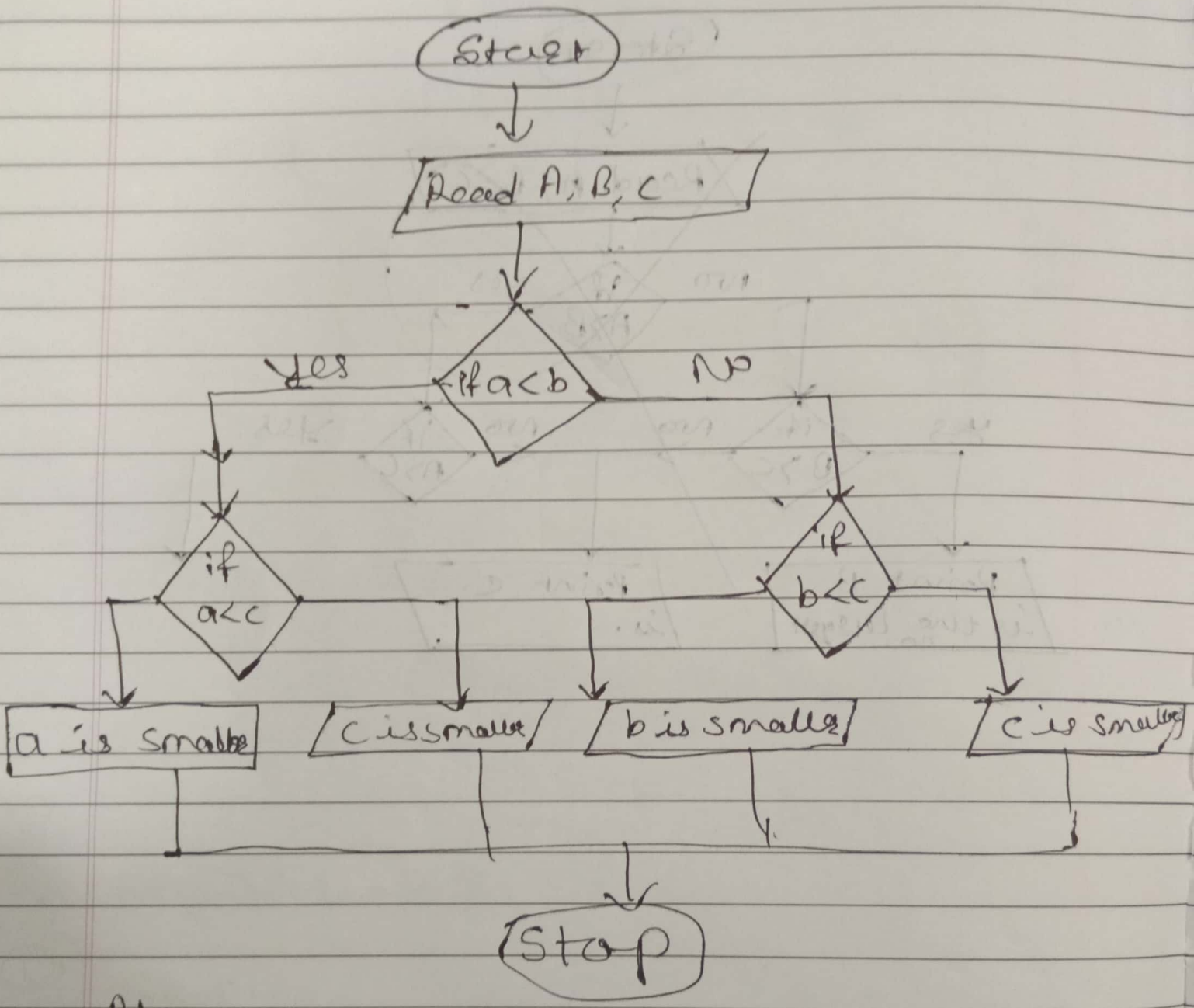
(6) flowchart & algo. for sum of digit.



Algorithm :-

(1) Start
(2) declare variable
(3) enter the no.
(4) n<0 then go NO
(5) n>0 then the print the digit
(6) Stop the program.

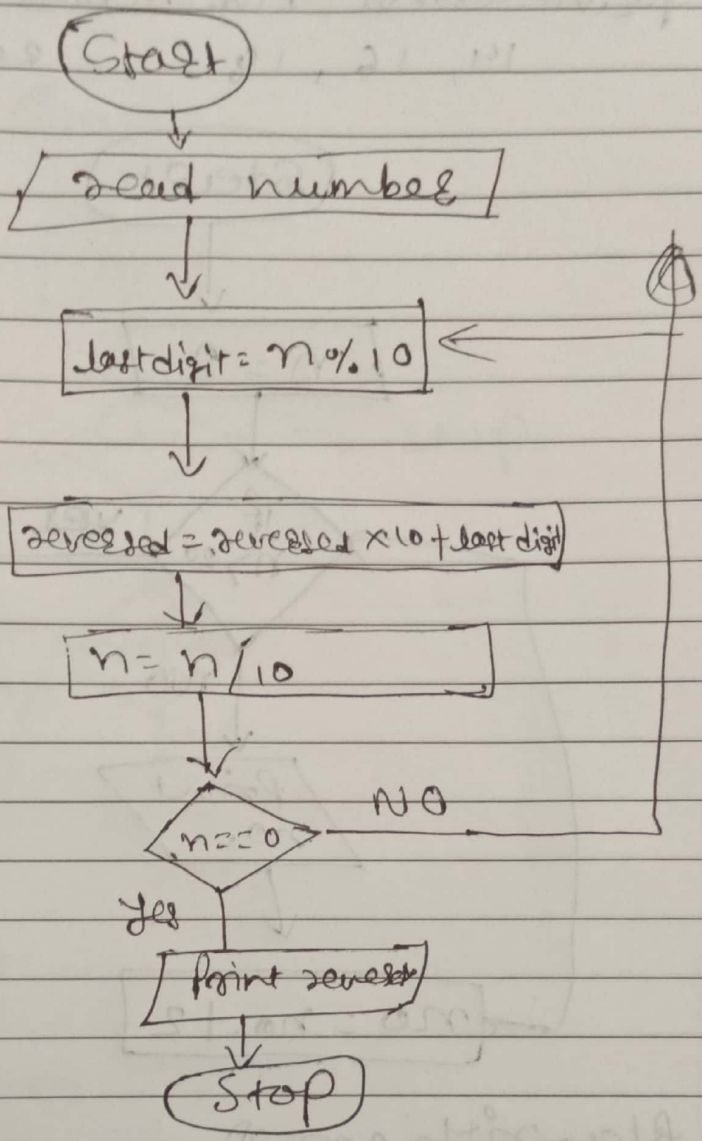
(7) Flowchart & algo. for finding the smallest no.



Algo.

(1) ~~Start~~ Start the program
(2) Read the three no.
(3) Check if a < b if yes then check a<c if yes then a is smaller ~~either~~ if no then c is smaller
(4) if a<b is no then check b<c if yes then b is smaller if no then c is smaller
(5) Stop the programme.

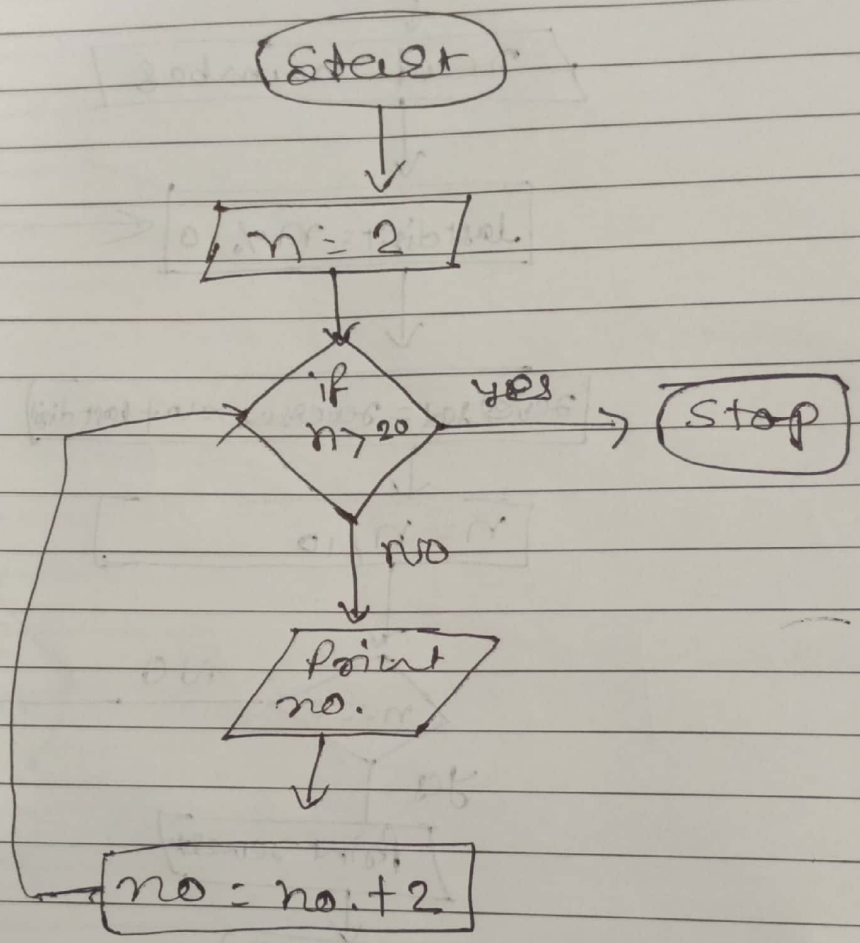
(8) Flowchart & diagram for reverse a no.



Algorithem:

(1) Start
(2) read the number
(3) declare & initialize another variable reversed with 0, reverse is int variable.
(4) get the last digit of given no. by performing modulo division and store in last digit.
(5) Multiply reversed by 10 and add last digit like reversed = reversed x 10 + last digit.
(6) divide number by 10.
(7) Repeat step 3 & 5 till the no. is not equal to 0

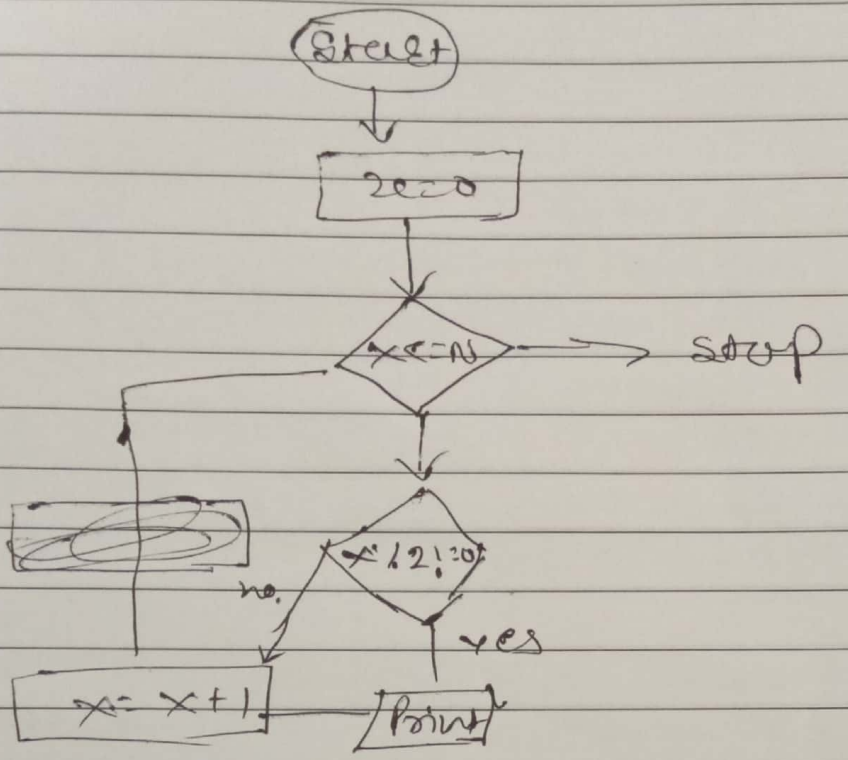
(9) draw a flow chart & algo. to print even no. series 2, 4, 6, 8, 10, 12, 14, 16, 18 ... 20



Algorithem :)

1. Start the programme
2. read input
3. if $n > 20$ if yes then stop & if it is no then print no.
4. Then no. = $n + 2$
5. and the again back to Condition check till $n > 20$ is true
6. Stop the programme.

(10) draw a flow chart & Algorithm to print the odd no. series.



Algorithm)

step

(1) Start program
(2) Declare x as an integer variable
(3) Set x=0
(4) Determine the value of n in integers.
(5) while (x<=N), repeat the step 5-7
(6) if (x%2!=0)
(7) Then print x
(8) x = x+1
(9) Stop the program.