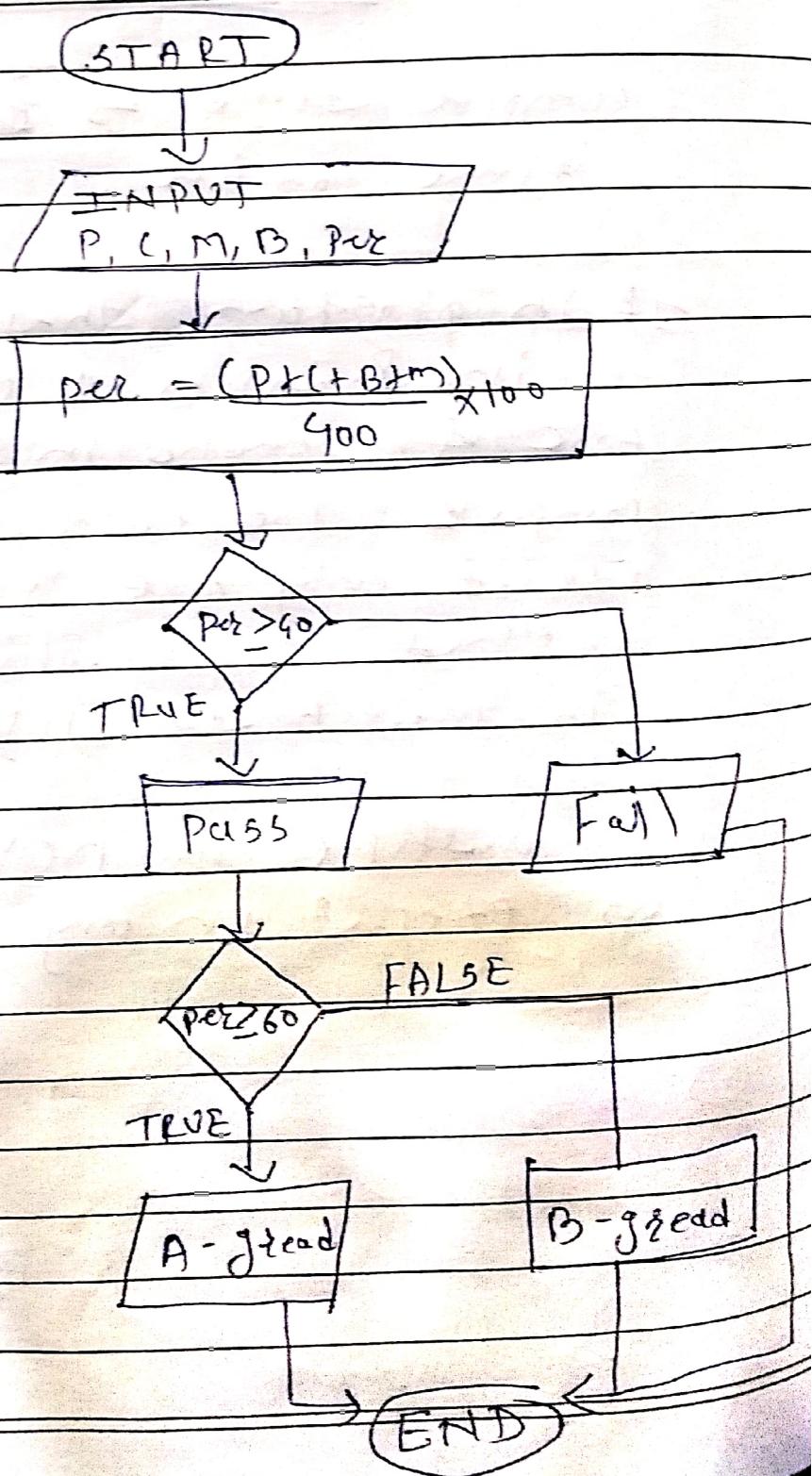
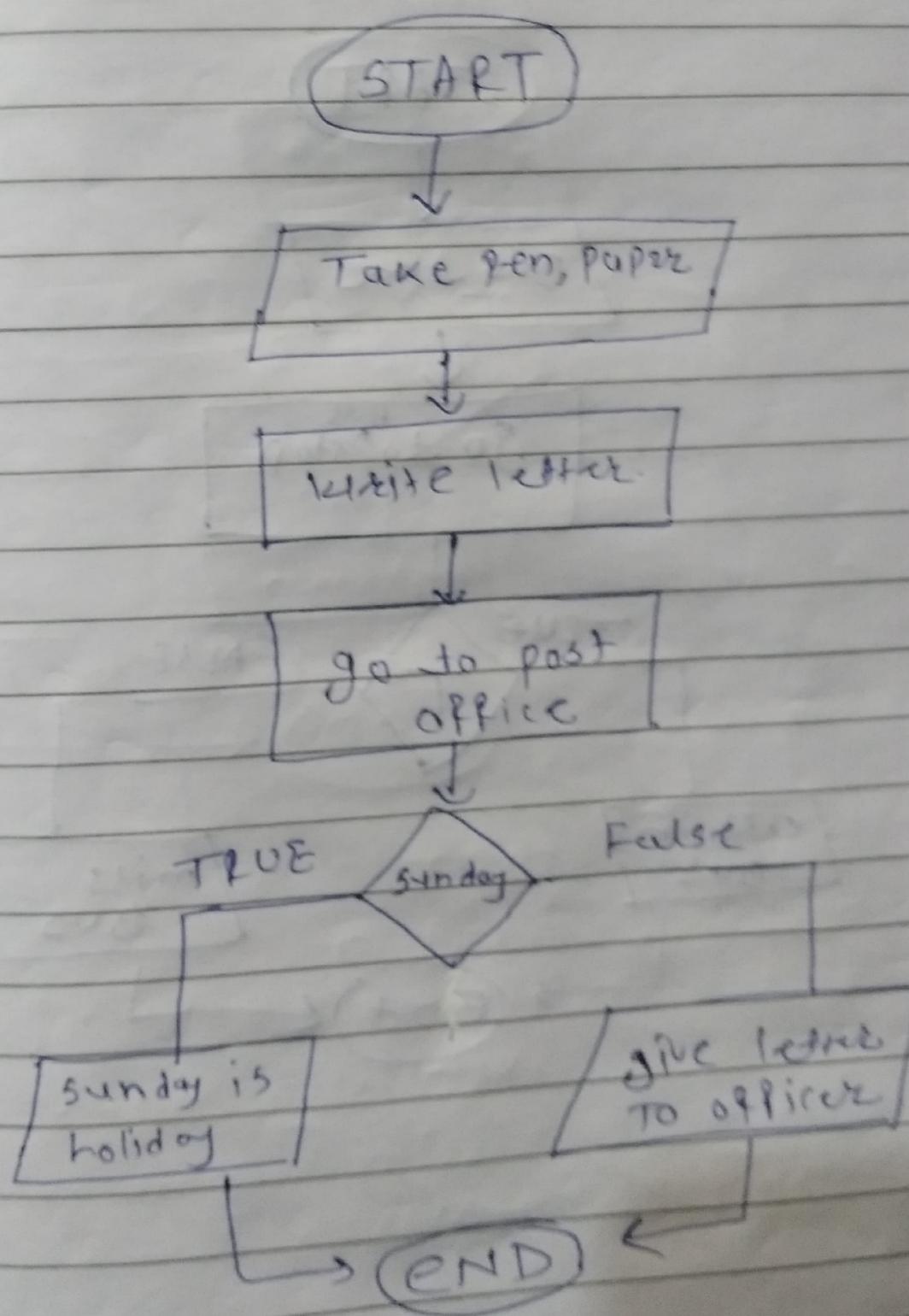


① Write algo / flowchart to determine student final grade & show it is pass or fail. The final grade is cal. on 4 subj.
(P, C, M, B).

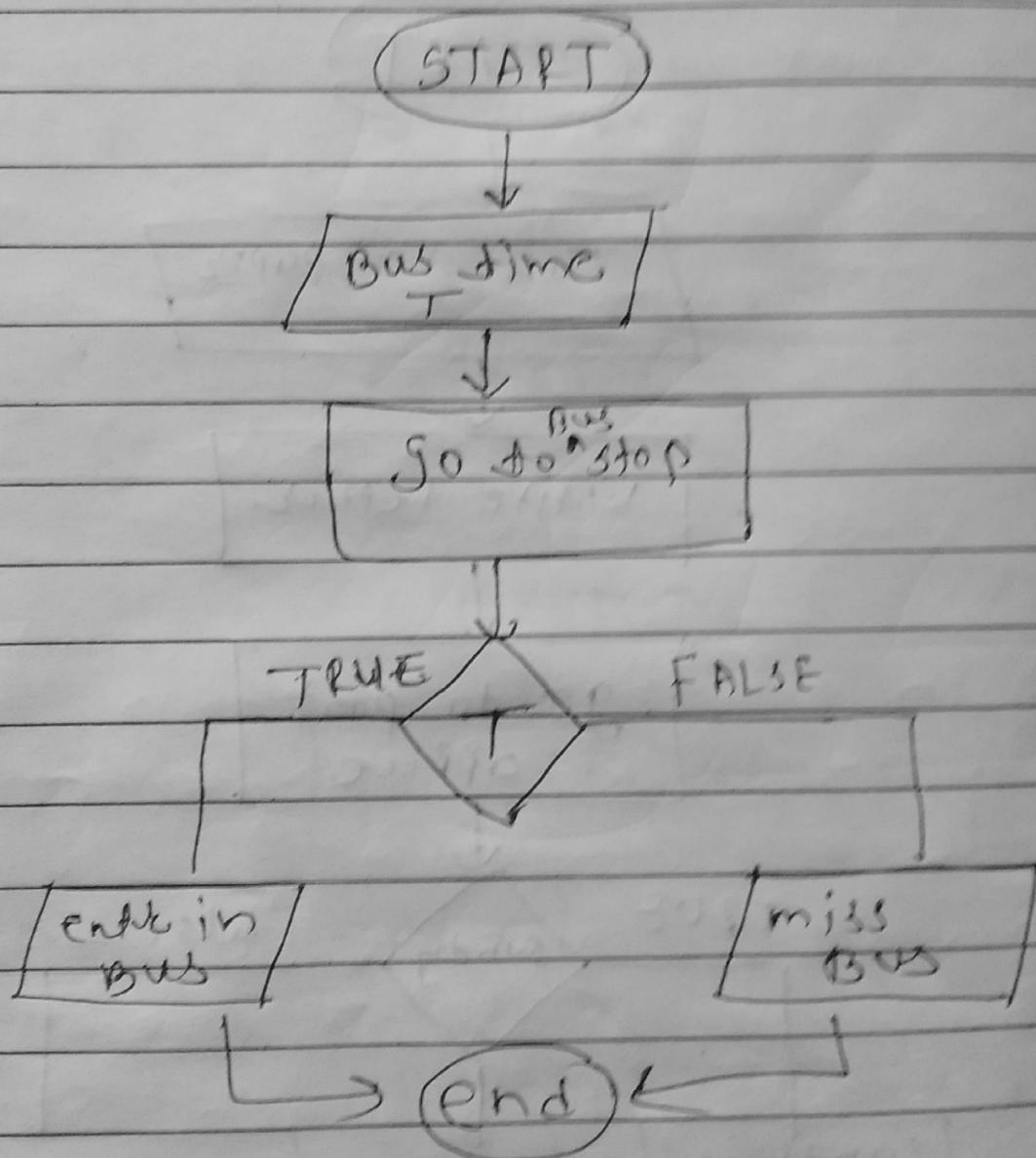
→



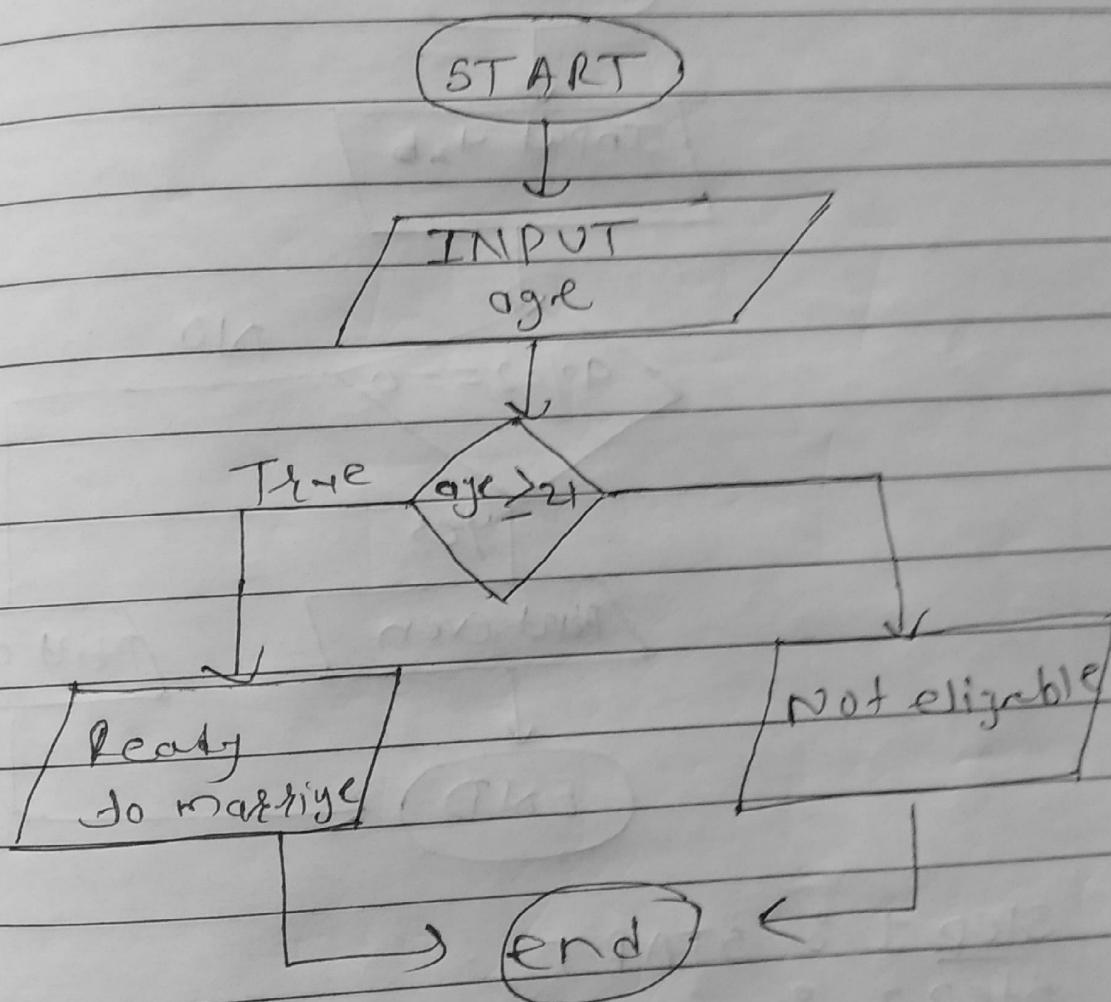
② write Alg or flow chart to post letter.



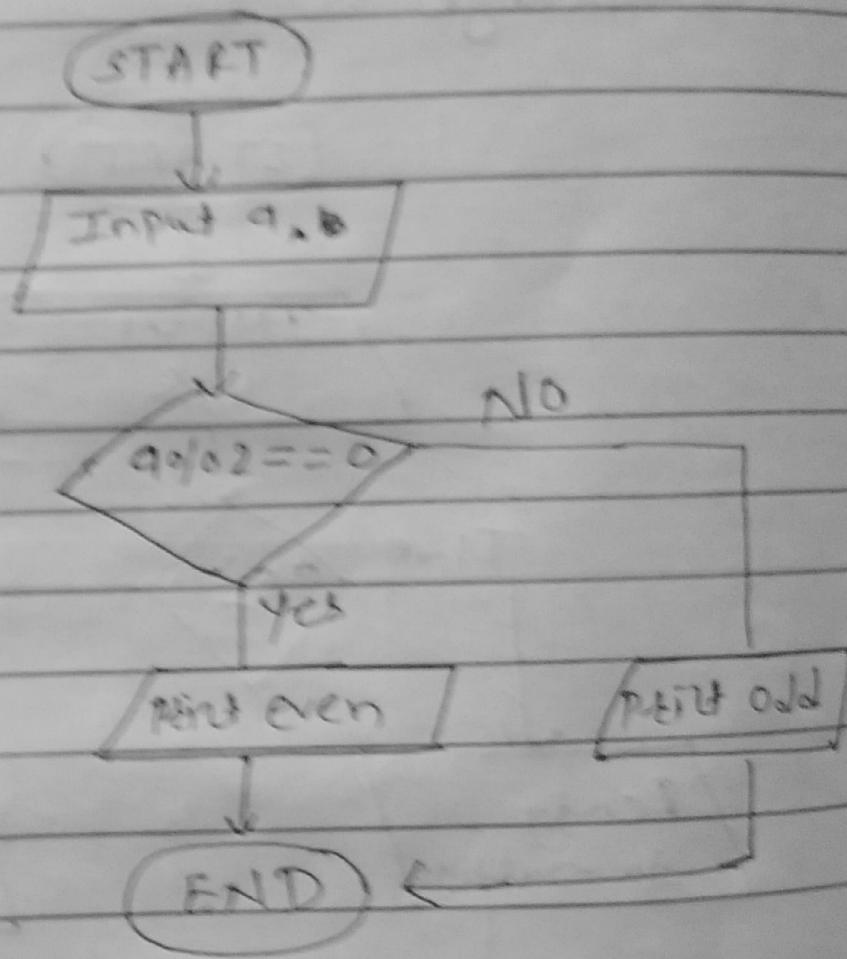
③ write algo / flow chart catch bus.



Q Write algo / flow chart to get into marriage.



① check number even or odd.



Step 1 : START ..

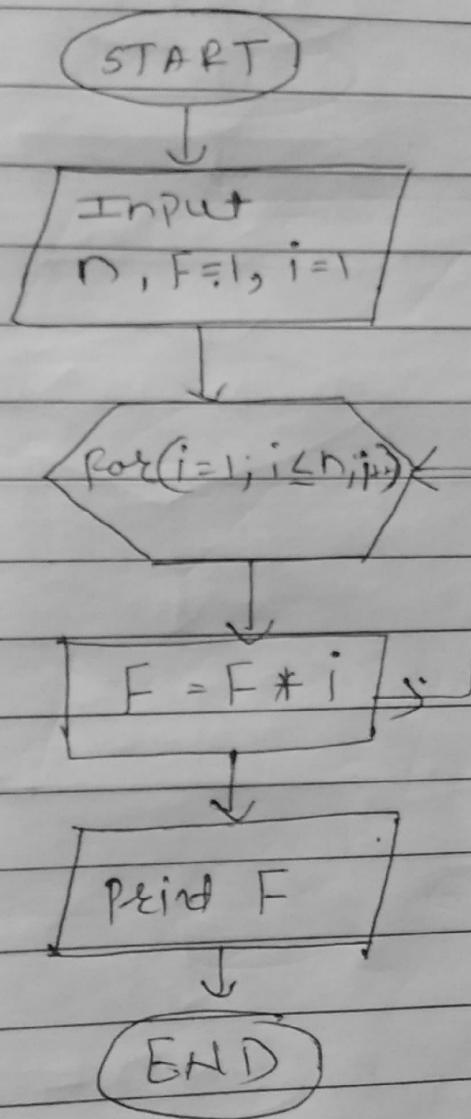
Step 2 : Input a .

Step 3 : if $a \% 2 == 0$ then number
even else odd .

Step 4 : display number even or odd .

Step 5 : END .

Q algo for factorial of given number.



Step 1 : START

Step 2 : Input N

Step 3 : Assignment of variable F & i is 1.

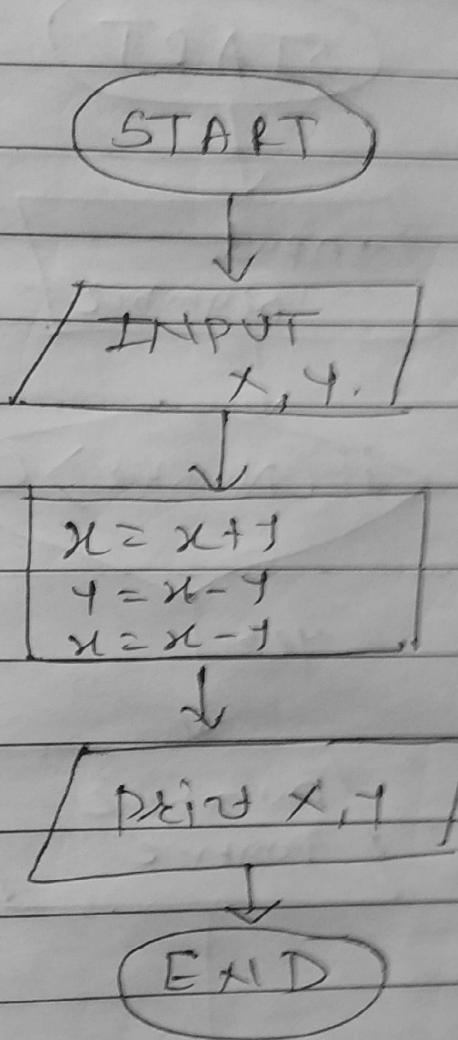
Step 4 : Take for loop (i=1; i<n; i++)

Step 5 : F = F * i

Step 6 : Print F

Step 7 : END.

Q) Swap two numbers with out 3rd variable.



Step 1 : START

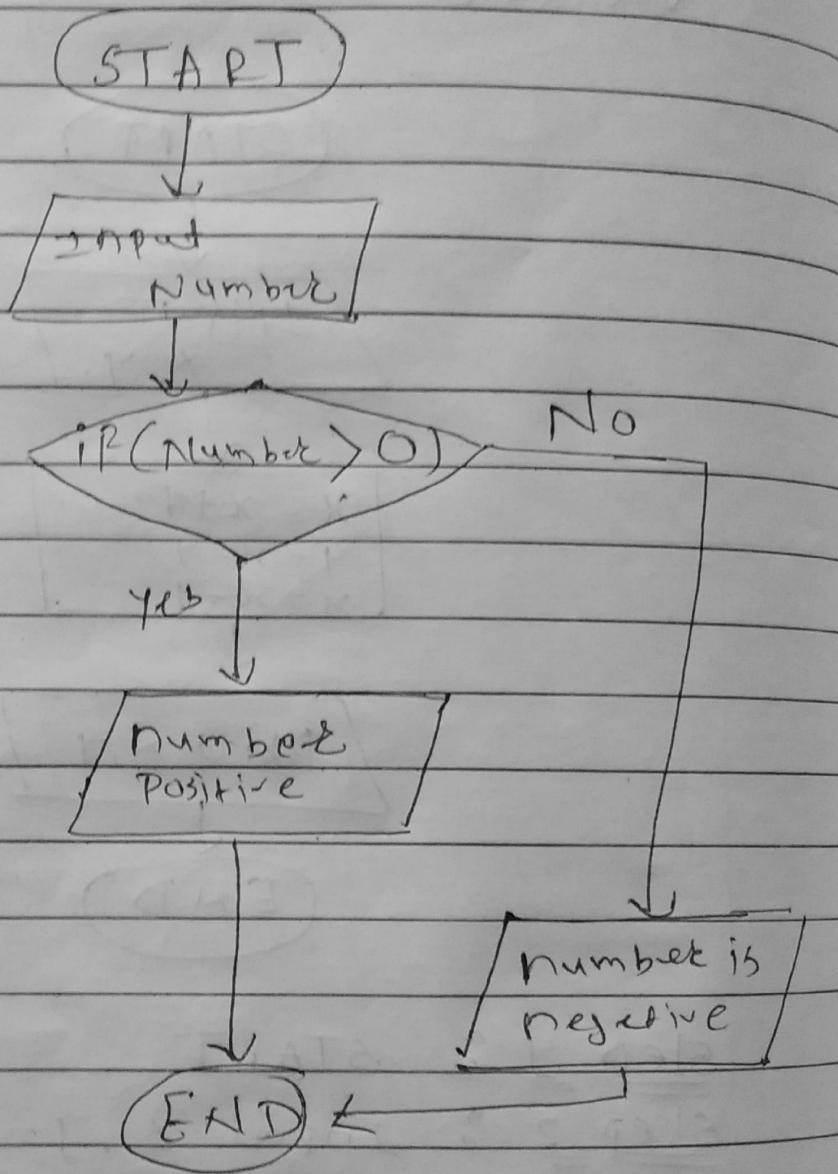
Step 2 : Input x, y

Step 3 : $x = x + y$
 $y = x - y$
 $x = x - y$

Step 4 : Print x, y

Step 5 : END

⑤ Number is positive or negative.



Step 1 : START .

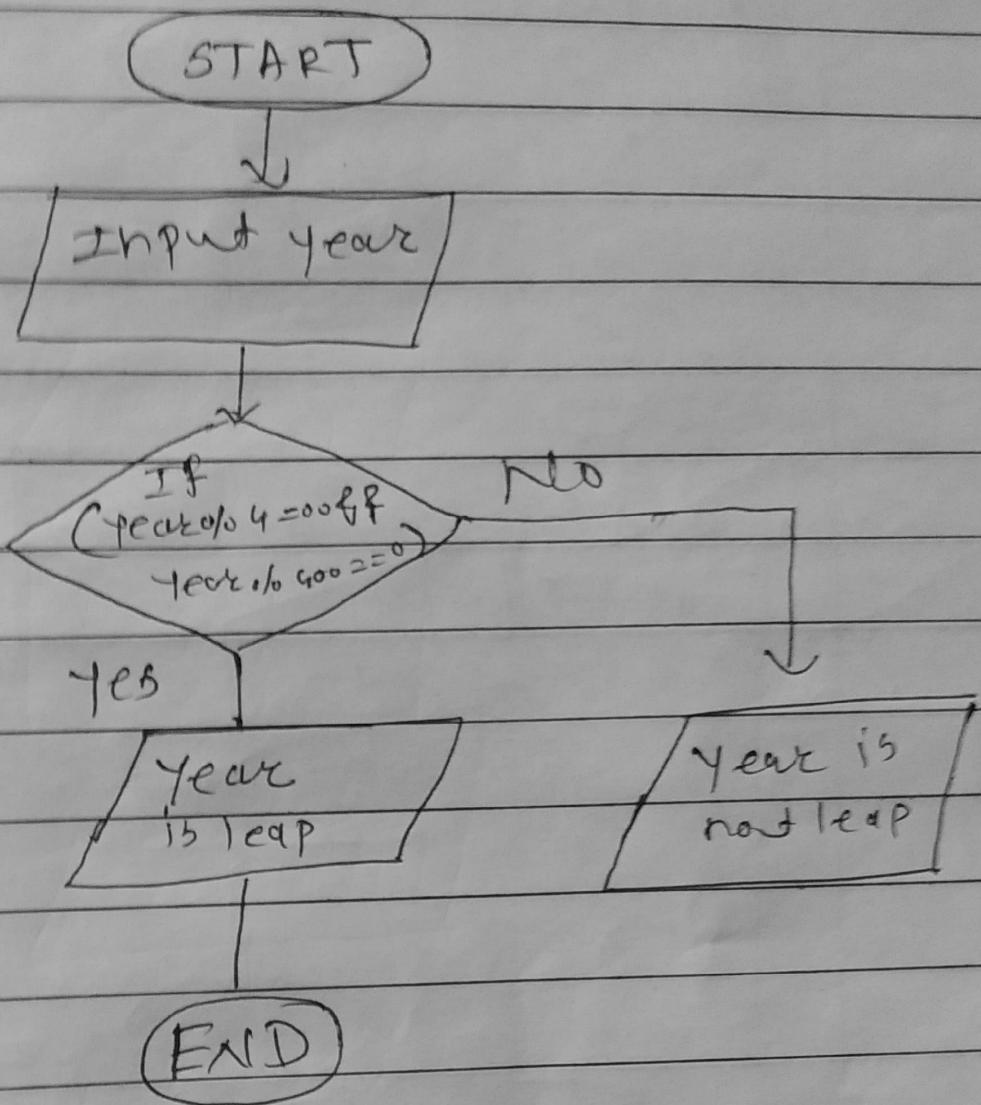
Step 2 : Input Number .

Step 3 : if Number > 0 then it is
positive else it is negative

Step 4 : Display Number .

Step 5 : END .

given number is leap or not.



Step 1 : START

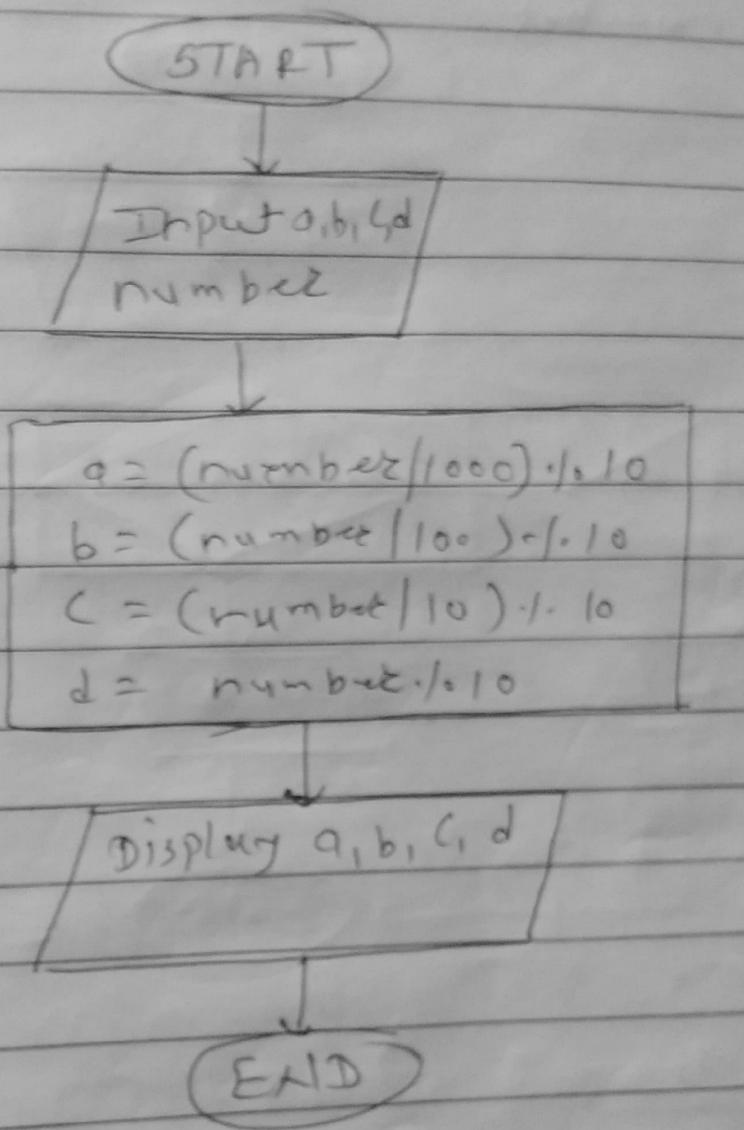
Step 2 : Input a year

Step 3 : if year is divisible by 400 &
4 then year is leap else non-
leap.

Step 4 : print year.

Step 5 : END.

Q) Find digit of given number.



Step 1 : START

Step 2 : Input a, b, c, d & number

Step 3 : a = (number/1000) % 10

b = (number/100) % 10

c = (number/10) % 10

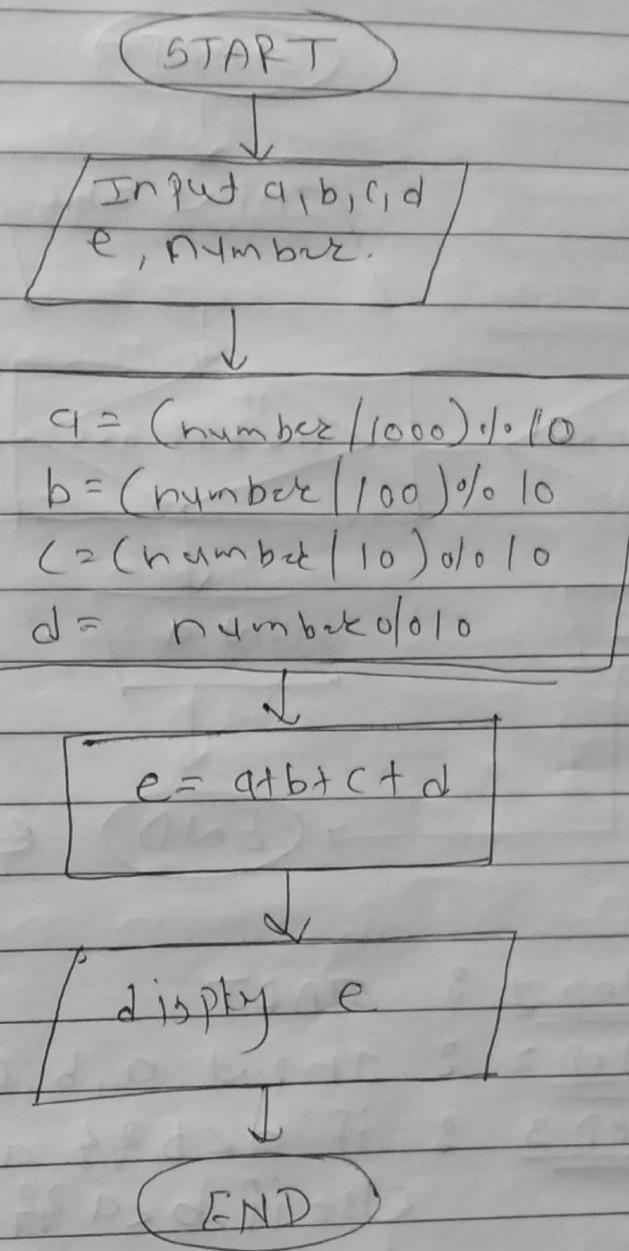
d = (number % 10)

Step 4 : Display a, b, c, d

Step 5 : END.

⑩

Sum of digits of a given number.



Step 1 : START

Step 2 : Input a,b,c,d,ef number.

Step 3 : $a = (\text{number}/1000) \% 10$
 $b = (\text{number}/100) \% 10$
 $c = (\text{number}/10) \% 10$
 $d = (\text{number} \% 10)$

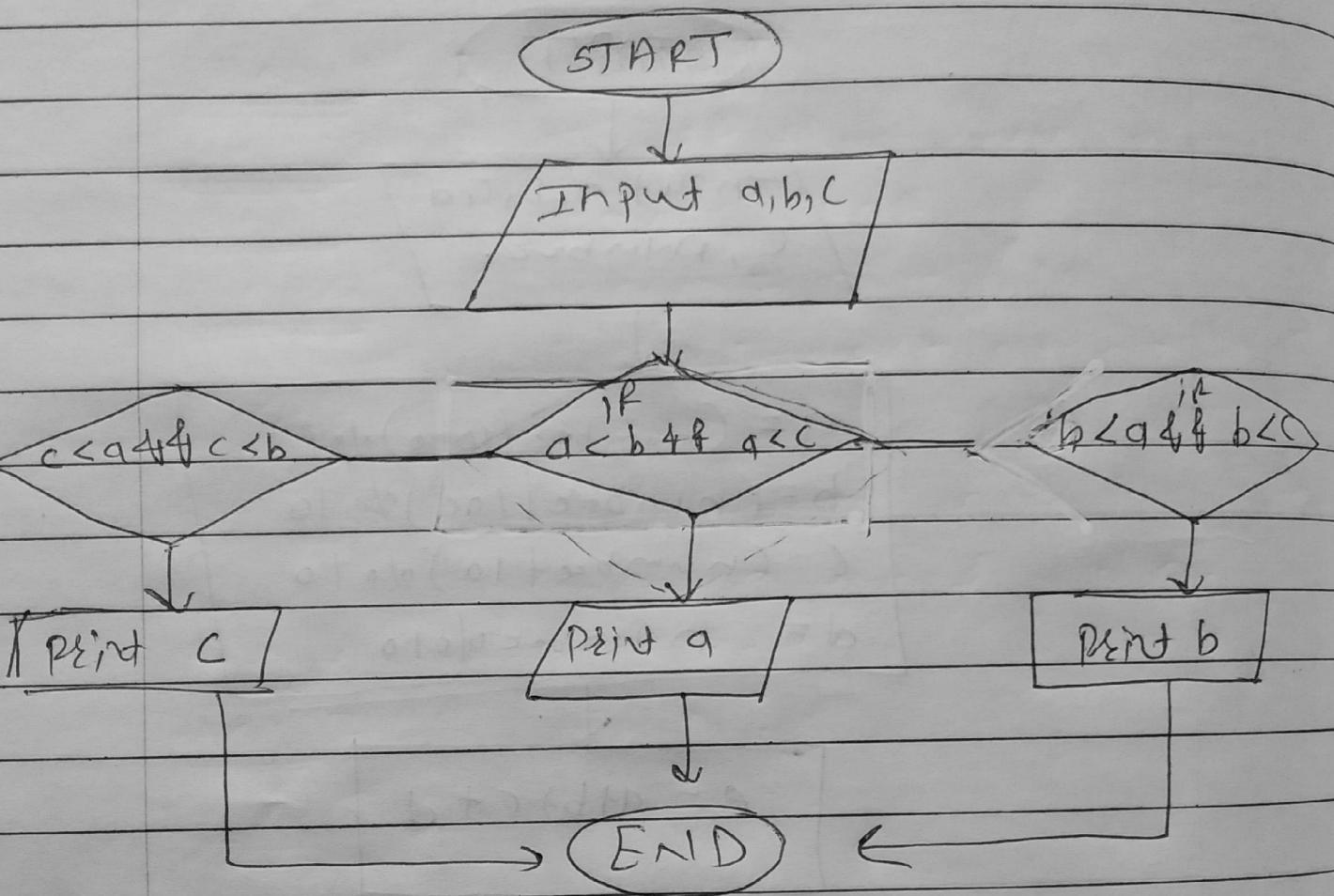
Step 4 : $e = a+b+c+d$.

Step 5 : Display e.

Step 6 : END.

(11)

find smallest 3 number.

Step 1 : STARTStep 2 : Input a,b,cStep 3 : if $a < b$ & $a < c$ then a small.
else if $b < a$ & $b < c$ then b small.else if $c < a$ & $c < b$ then c small.Step 4 : print which is true.Step 5 : END.

(B)

Reverse a given number.

Step 1 : START

Step 2 : Input Num, rev, rem.

Step 3 : Take Loop

Step 4 : $rem = num \% 10$

$rev = rev * 10 + rem$

$num = num / 10$

Step 5 : loop ~~continue~~ repeat until
condition is not false.

Step 6 : Print rev.

Step 7 : END.

(14)

GCD of given number.

(8) Even number series 2, 4, 6, 8, ...

Step 1 : START

Step 2 : Input variable num=2

Step 3 : Take loop num1=0

Step 4 : ~~Take~~ num + = 2

Step 5 : Display num.

Step 6 : END.

(9) Odd number series 1, 3, 5, 7, ...

Step 1 : START

Step 2 : Input variable num=1

Step 3 : Take loop num1=0

Step 4 : num + = 2

Step 5 : Display num

Step 6 : END