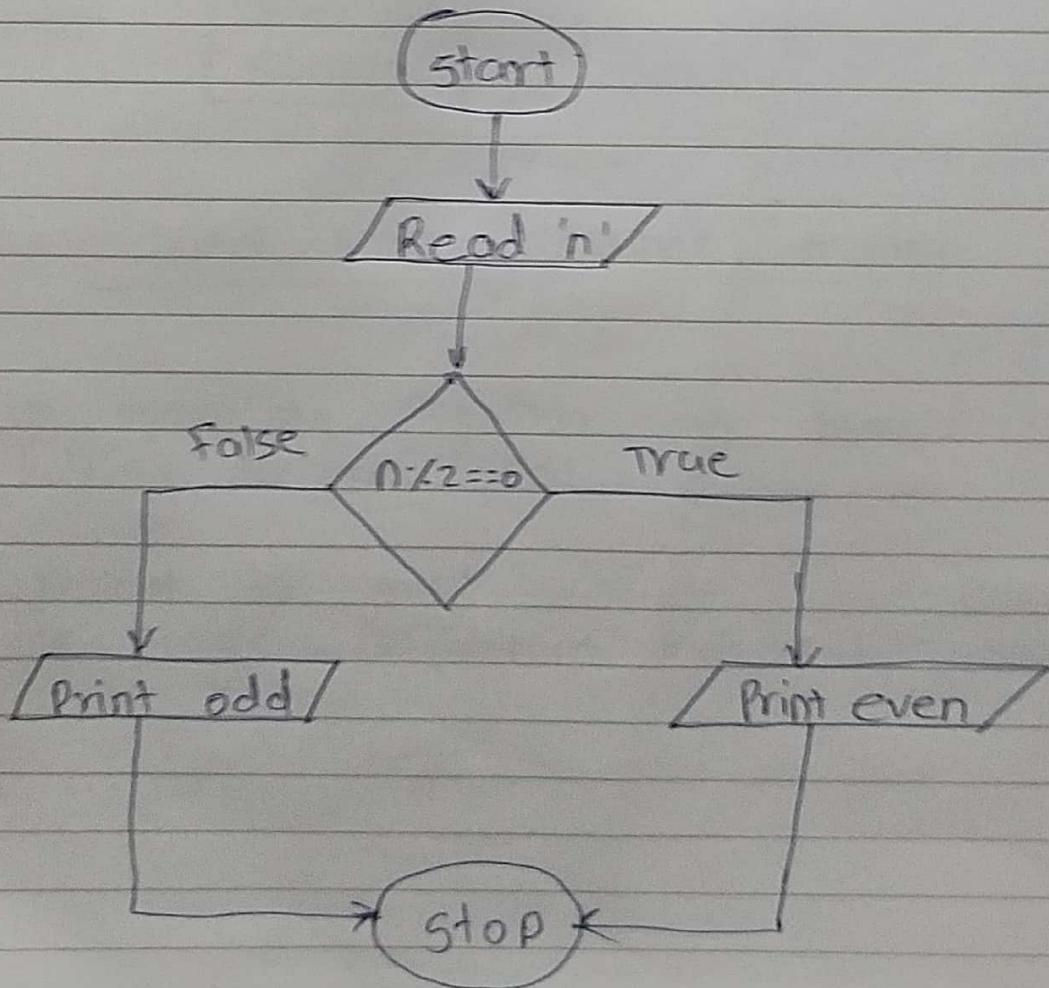


Q.1

⇒ Algorithm :-

- a) Read the input 'n'.
- b) check whether 'n' is completely divisible by 2 or not
- c) If remainder is '0' print 'even'  
else print 'odd'
- d) Stop

Flowchart :-

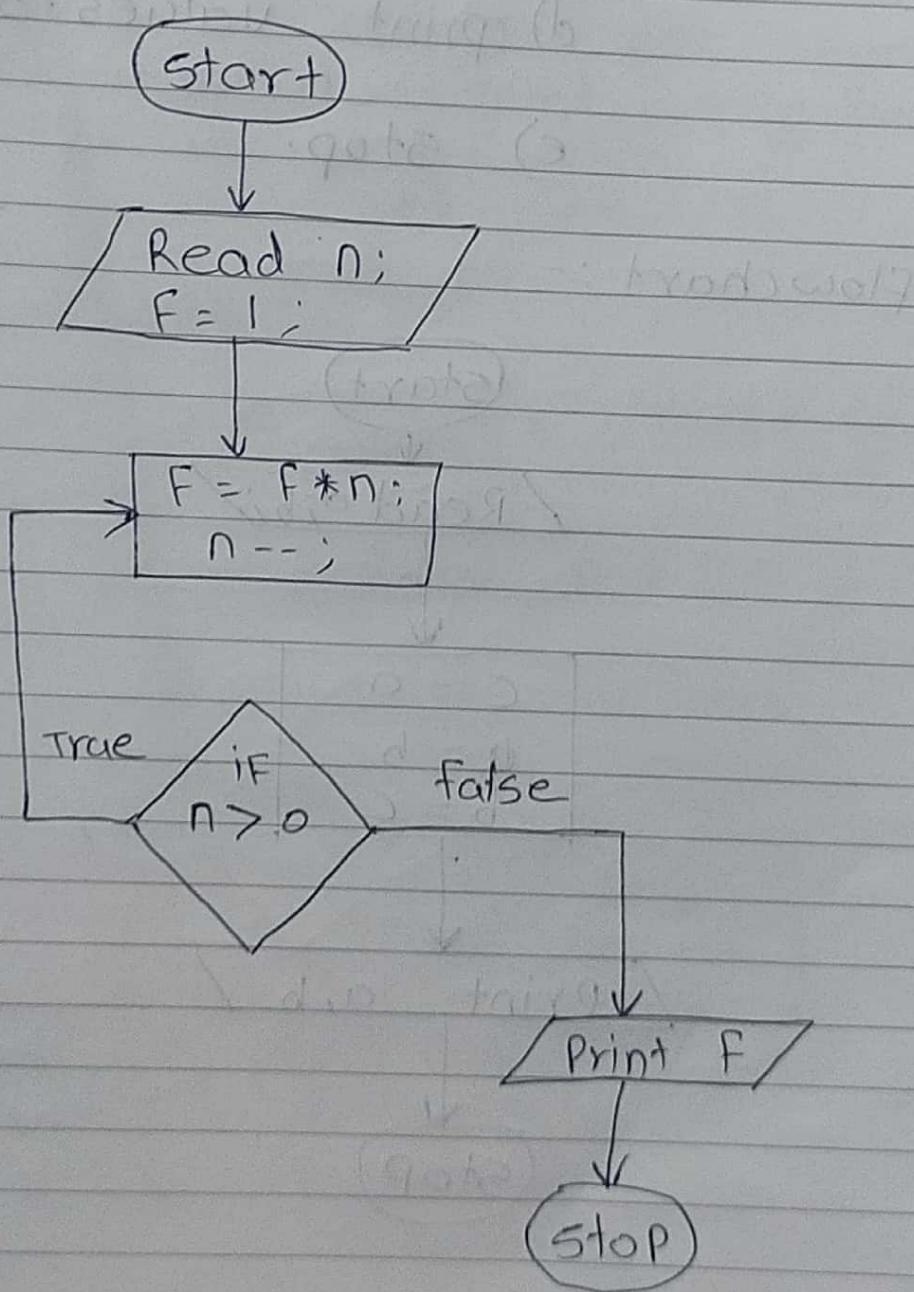


Q.2.

⇒

Algorithm:-

- a) Read the input 'n'
- b) Define ~~f = 0~~  $F = 1;$
- c) Factorial :  $F = (n) * (n-1) * (n-2) \dots 1$
- d) Print the value of 'f'
- e) stop

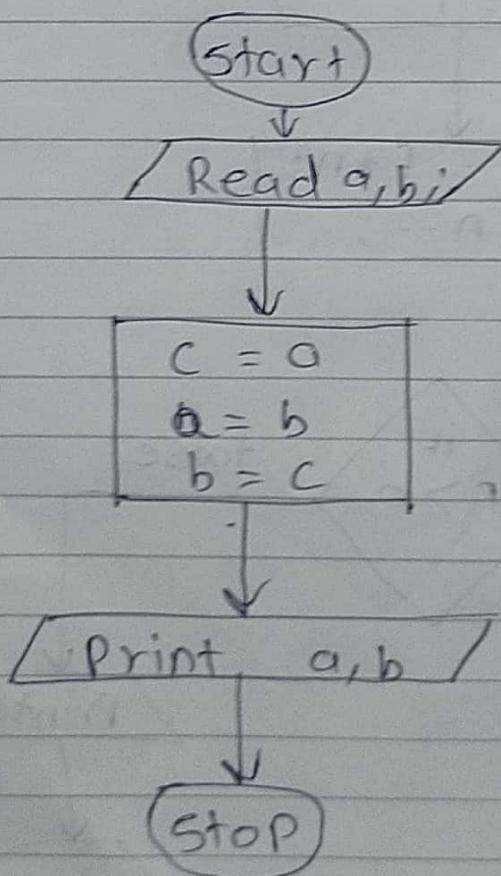


Q.4.

Algorithm :-

- a) Read two number a, b.
- b) Define  $c = 1$ ;
- c) print then  
    Put  $c = a$ ;  
    &  $a = b$ ;  
     ~~$b = c$~~ ;
- d) print values of a & b
- e) stop.

Flowchart :-

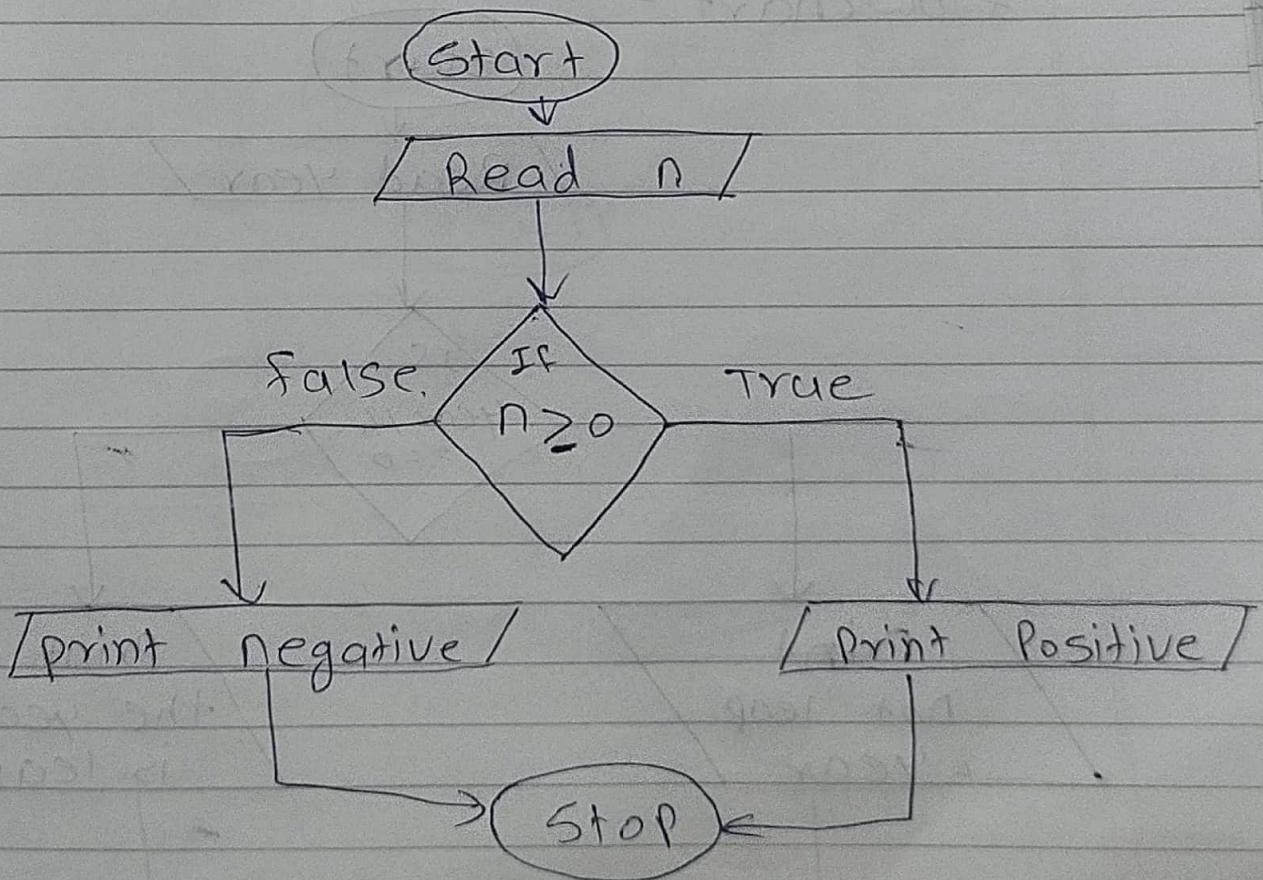


2.5

Algorithm :-

- a) Read 'n'
- b) check whether no. is greater than zero or less than zero
- c) if greater than zero print positive
- d) If less than zero print negative.
- e) Stop

flowchart



Q.6.

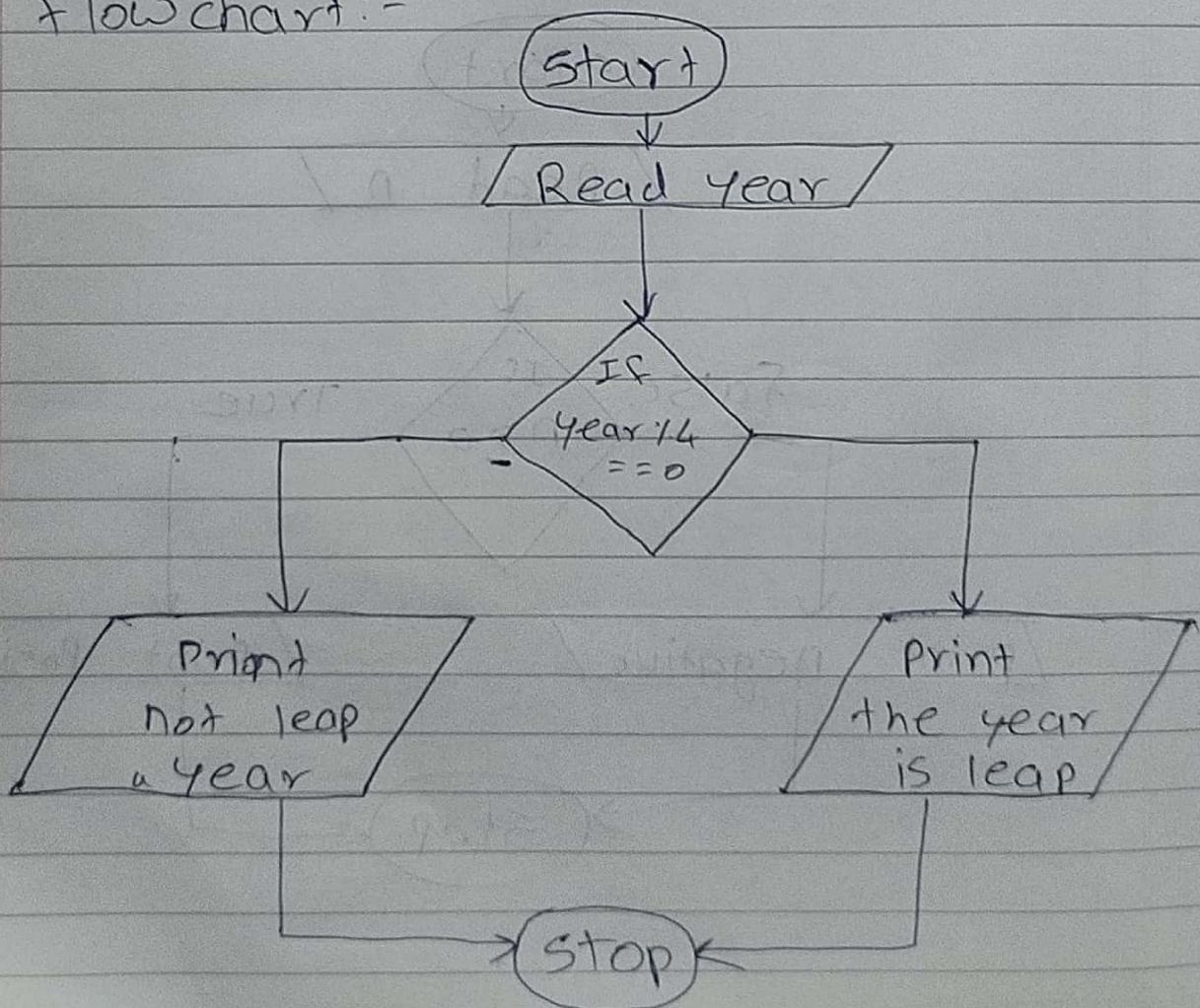
 $\Rightarrow$  Algorithm

a) Read Year.

b) check whether year  
is completely divisible  
by 4 or notc) If remainder is 0  
then print year is  
leap. or else 'not'

d) Stop.

Flowchart:-

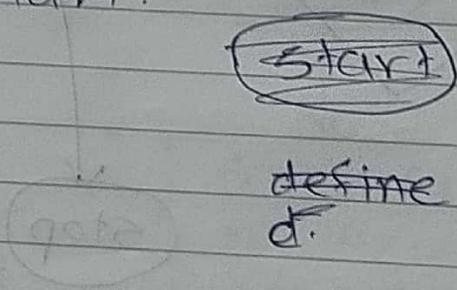


8.7.

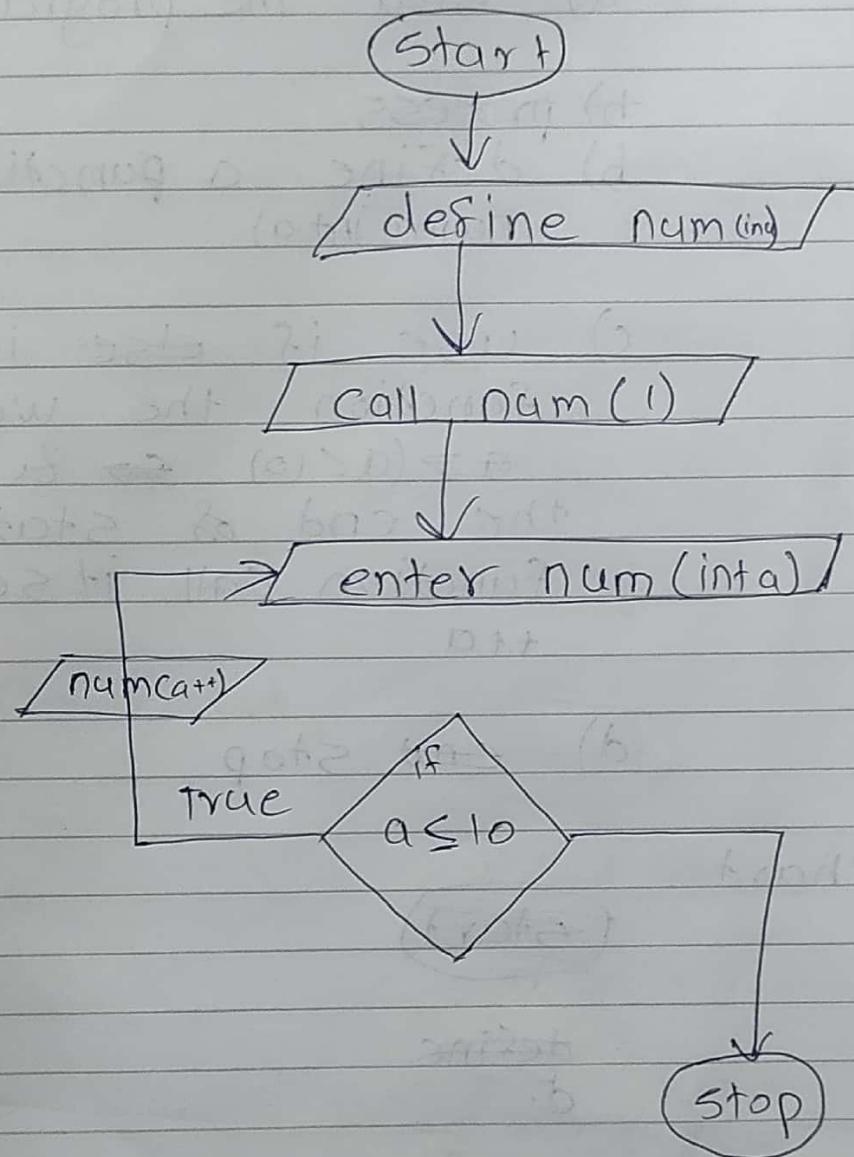
Algorithm :-

- a) start the program
- b) process
- c) define a function  
 $\text{num}(\text{int } a)$   
use if else in  
function the way if  
 $a \rightarrow (a < 10)$  so & at  
the end of statement  
function call it self using  
 $+ a$
- d) end stop

flow chart.



Flow chart :-

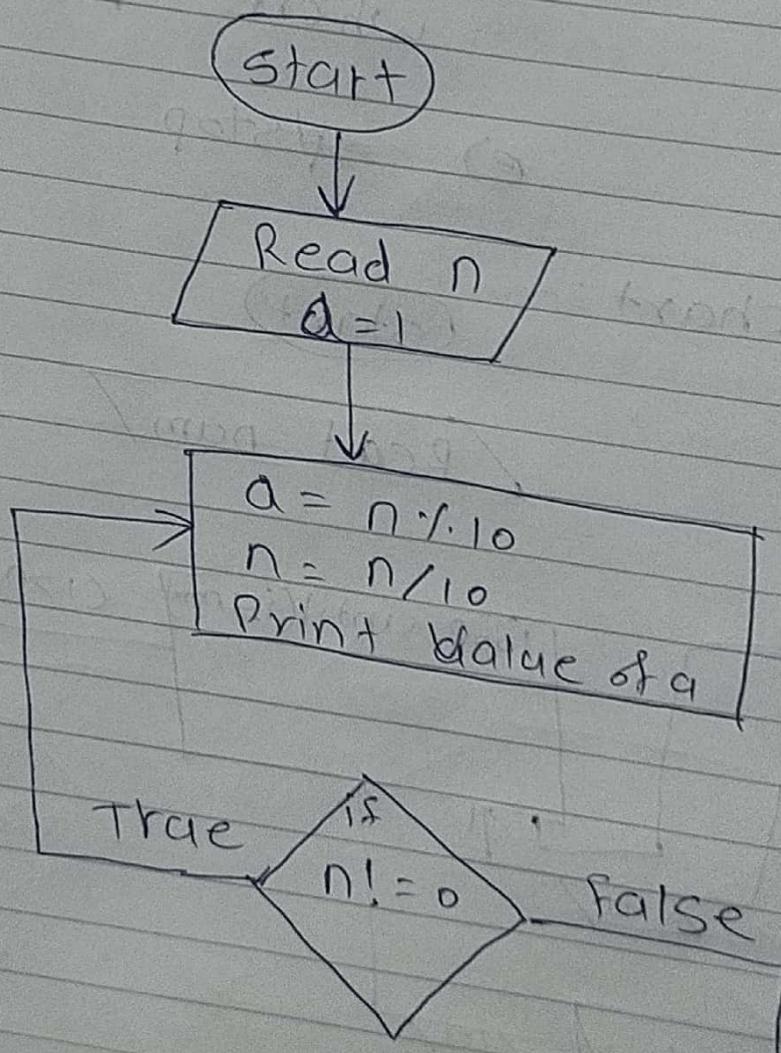


Q.8.

⇒

- Algorithm :-
- Read 'n' define  $a=1$
  - do a loop until  $n=0$
  - in loop do  
 $a = n \% 10$   
 $n = n / 10$
  - of a Print value  
 end

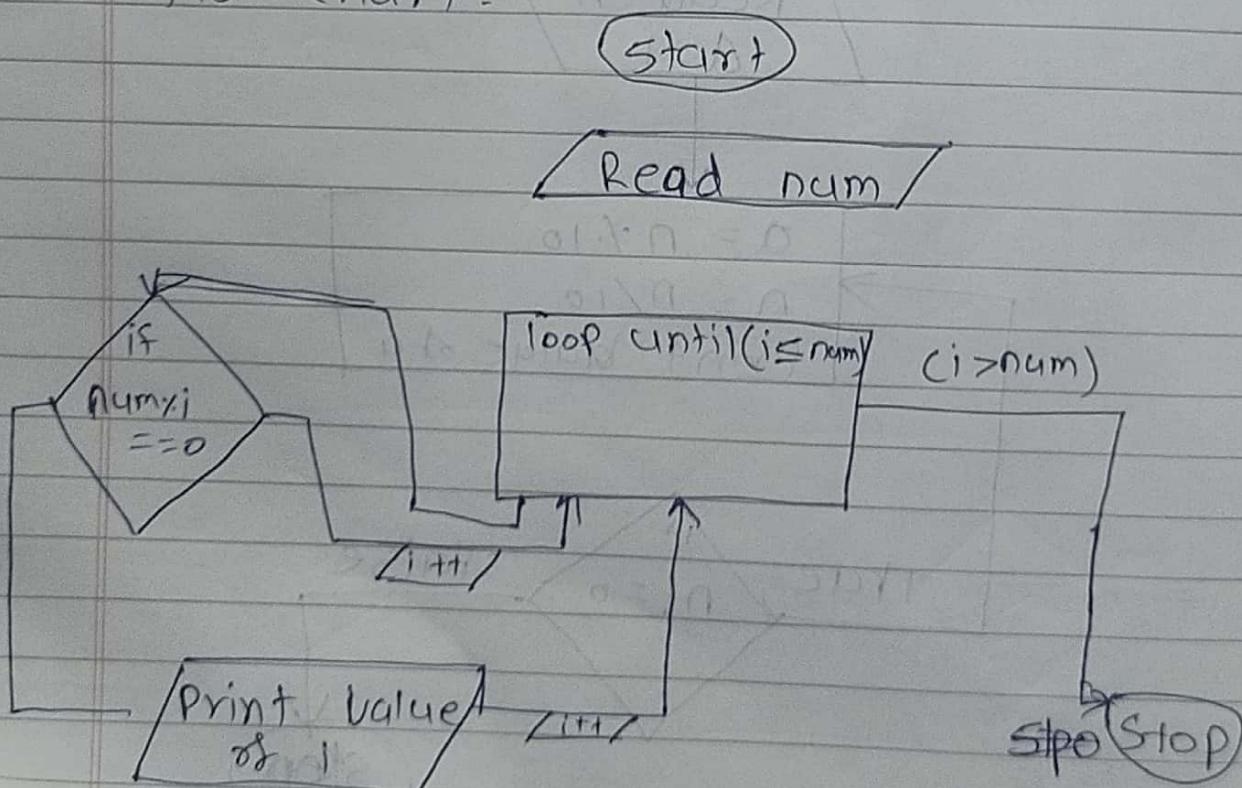
Flowchart



Q.9.

- $\Rightarrow$  Algorithm :-
- Read num
  - Take loop where number of loop is equal to num
  - in loop check modulus of num with every number i until i is equal to num
  - print the value of i where modulus is zero
  - Stop

Flowchart :-



a.10.

⇒ Algorithm :- (a) Read num

b) Define  $x=1, Y=0;$

c) Take a loop and do

$$x = \text{num} \% 10$$

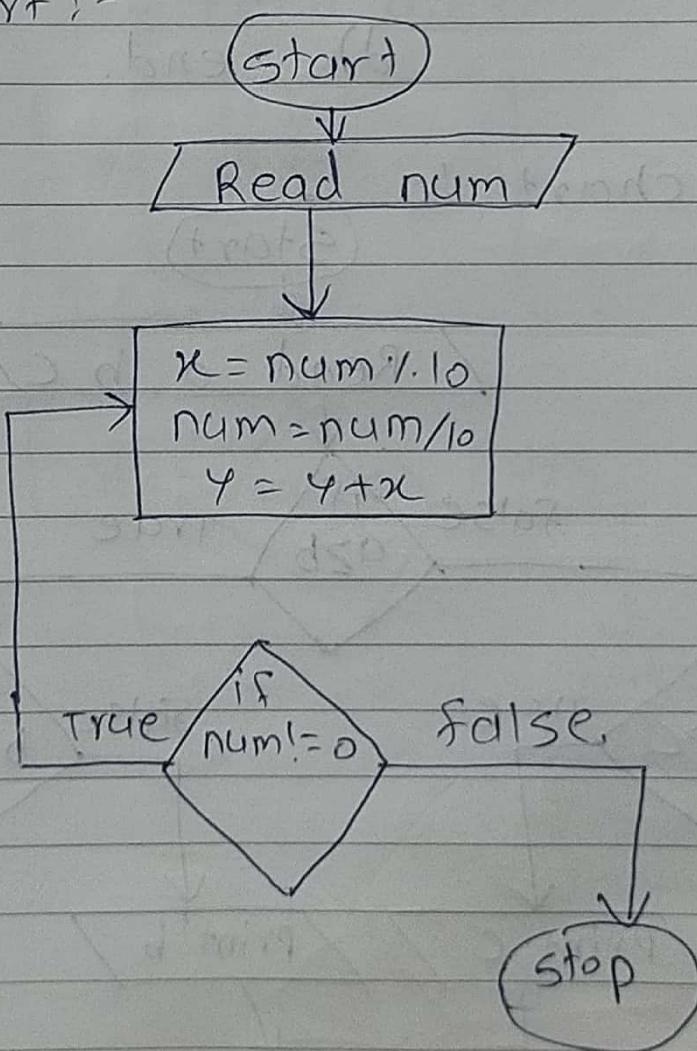
$$\text{num} = \text{num} // 10$$

$$Y = X + Y \quad Y = Y + X;$$

until  $\text{num} = 0$

d) Stop

Flowchart :-



Q.11.

$\Rightarrow$  Algorithm  $\rightarrow$  a) Read  $a, b, c$

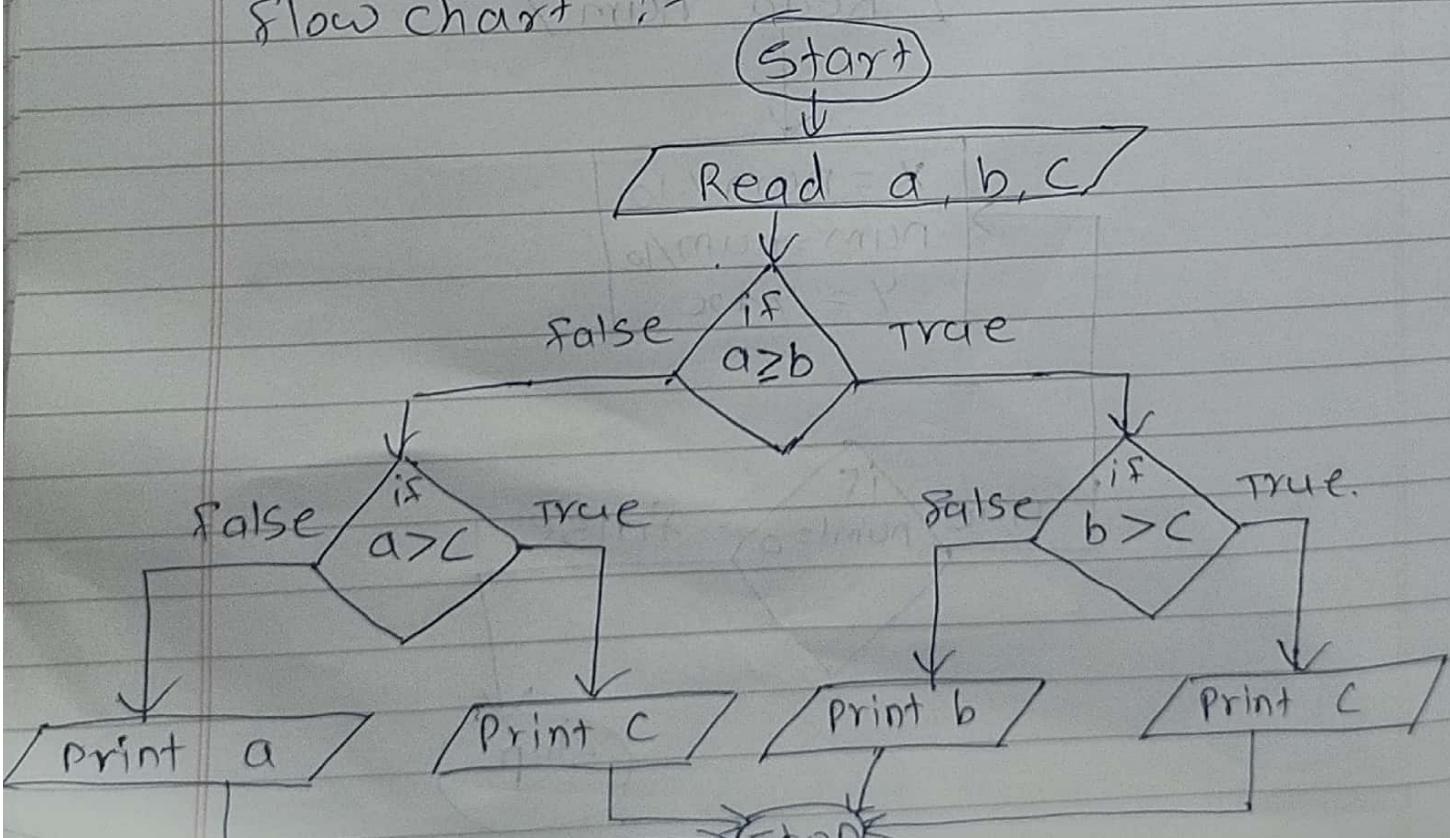
b) do if  $a$

b) check if  $a$  is less than  $b$  & if  $a$  is less than if ~~if~~  $c$  is less than  $a$  is greater ~~than~~ then print  $c$  is smallest or else print  $a$ .

c) if  $b$  is less than  $a$  then  $c$  then print value of  $c$  or else print  $b$

d) end.

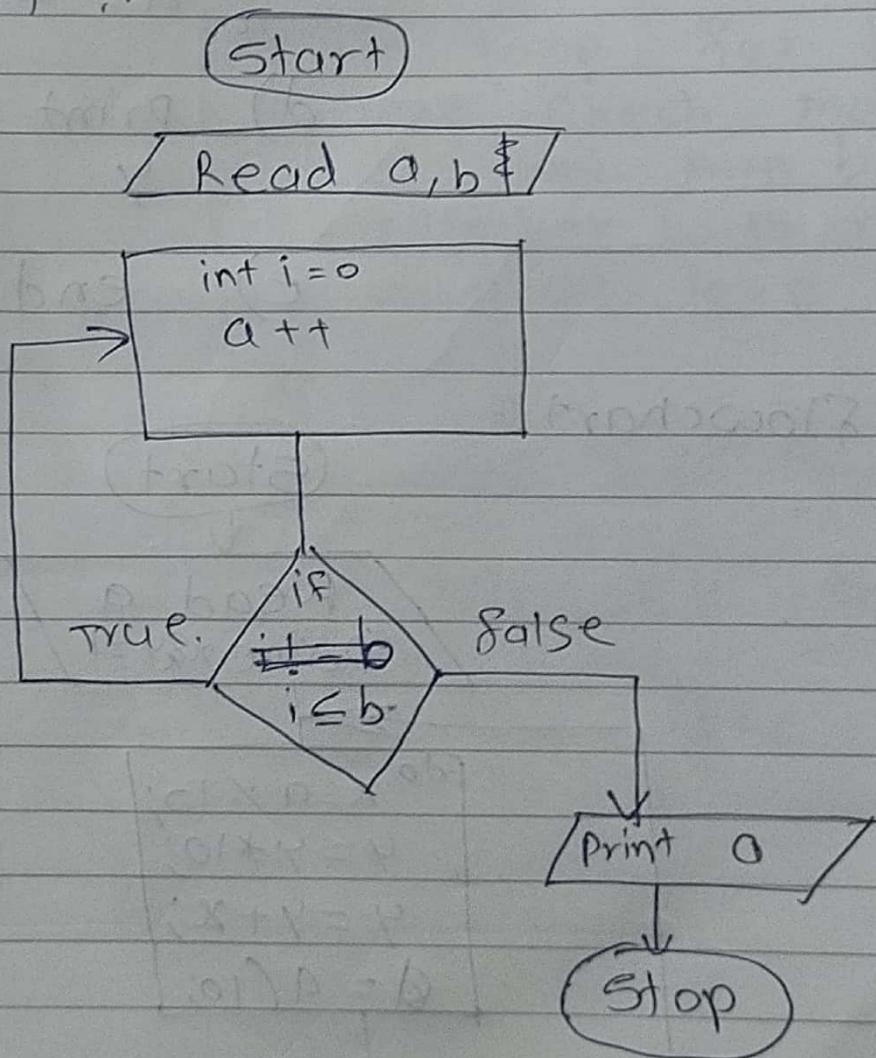
Flow chart



Q.12.

- ⇒ Algorithm :-
- Read a, b
  - do a loop and increment a with a++ until loop is equal to b
  - Print a
  - Stop end.

Flowchart :-



Q. 13

⇒ Algorithm :- a) Read a  
Define  $x=1, y=0$

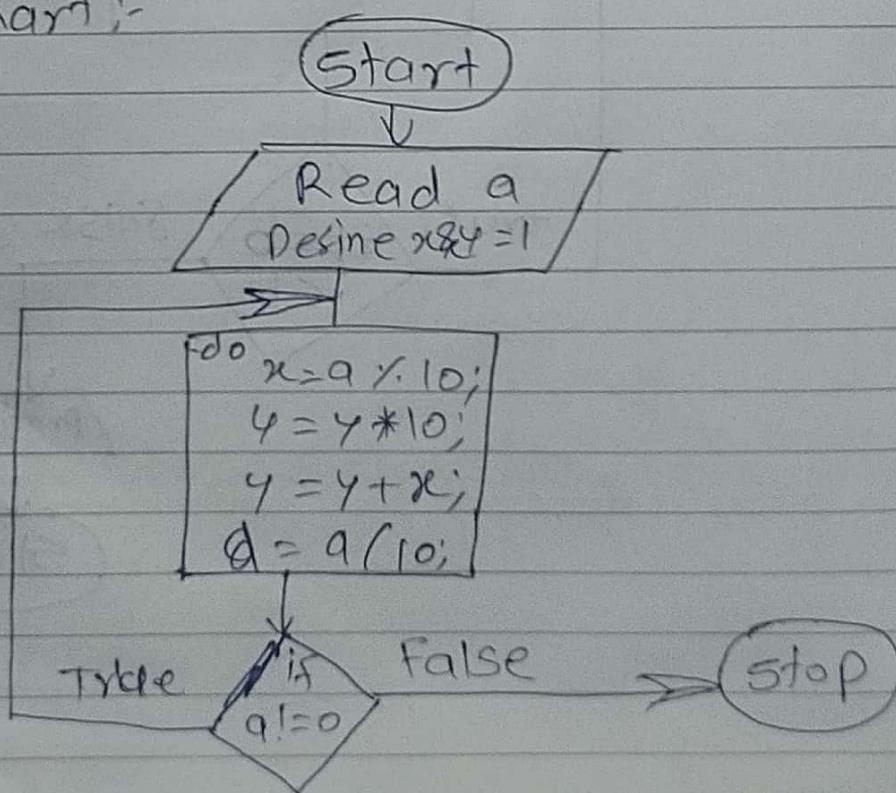
b) do a loop until  
 $a=0$

c) For each loop do  
 $x = a \% 10;$   
 $y = y * 10;$   
 $y = y + x;$   
 $a = a / 10;$

d) Print the value of  
 $y$

e) end

Flowchart :-



14.

Algorithm :-

a) Start

b) Read a, b

Desine  $x=1$

c) do a while until  
the number of loop  
is less than or  
equal to both the  
number

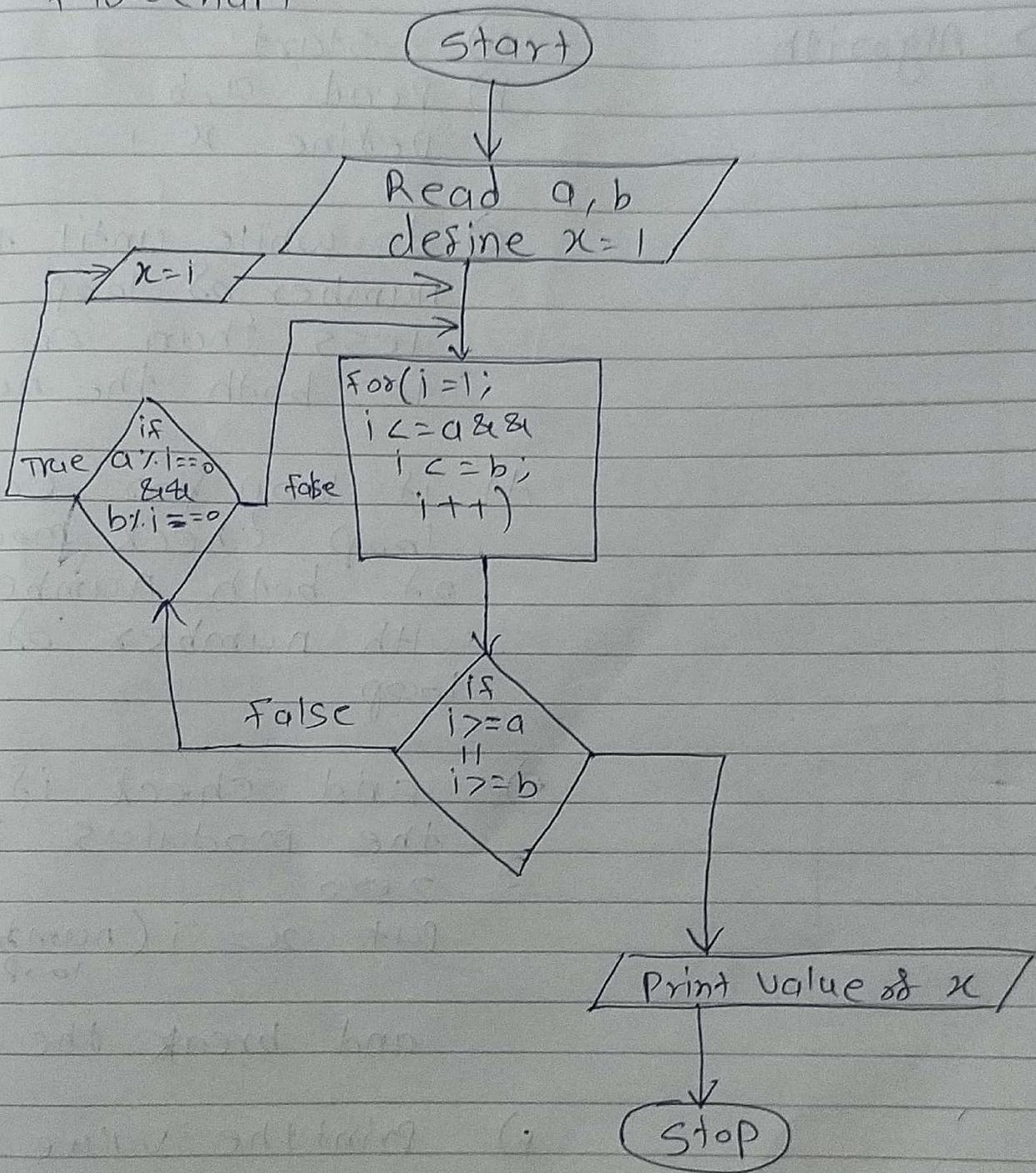
d) in loop for each  
loop check modulus  
of each run both  
number with number  
of that loop

e) and at check if  
the both modulus  
is zero  
Put  $x = j$  (number of  
loop)

f) print the value  
of  $x$

g) end.

Flowchart :-



Q. 15.

⇒ Algorithm :-

a) Start

b) Read a, b

Define  $x = 1$

c) do while until the number of loop is less than or equal to both the number

d) if loop for each loop check modulus of both number with number of that loop

e) and check is the modulus is zero

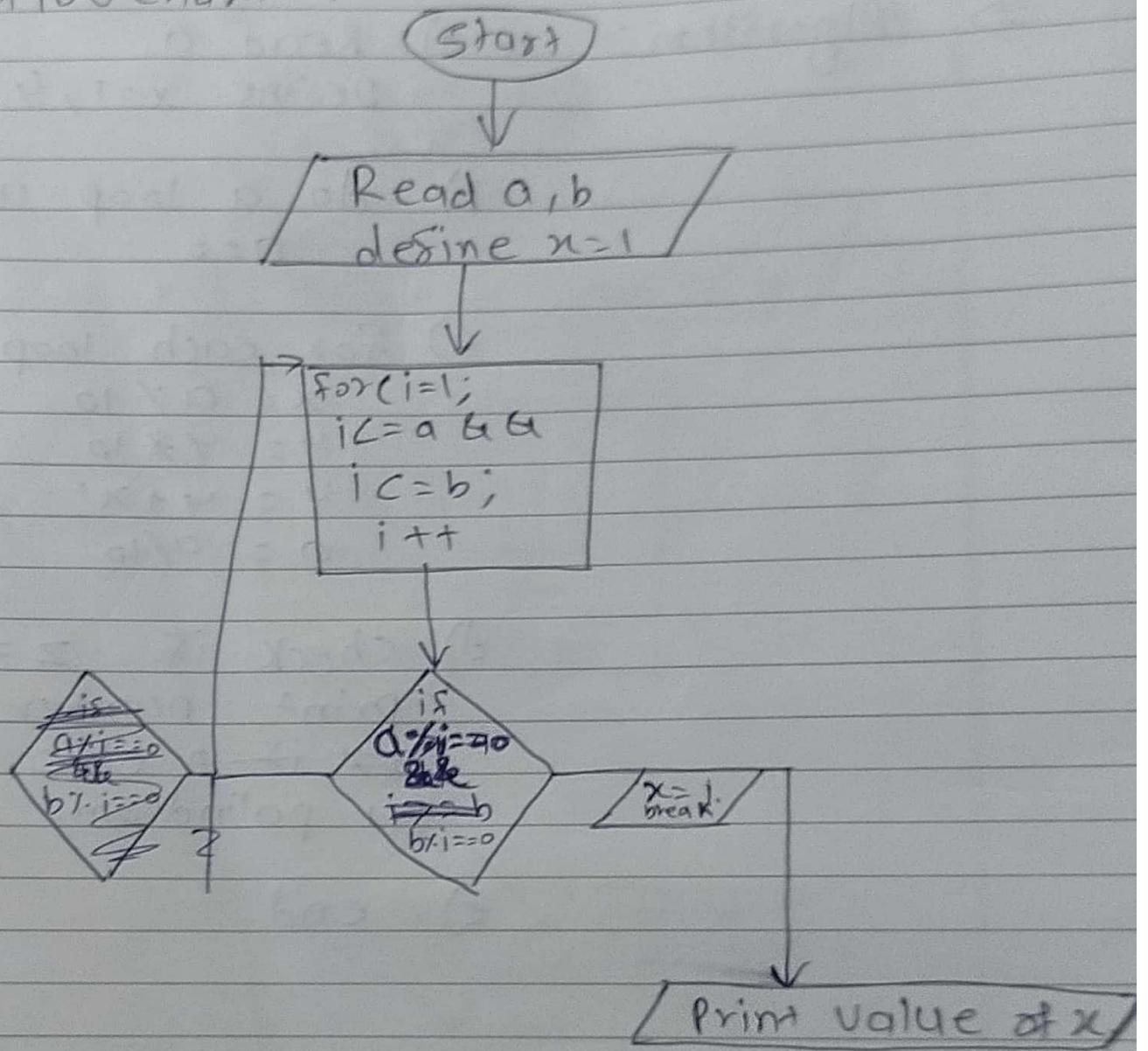
Put  $x = i$  (number of loop)

and break the loop

f) Print the value of  $x$

g) end.

Flowchart :-



Q. 17.

$\Rightarrow$  Algorithm :-

a) Read a

Desine  $x=1, y=0, z=0$

b) do a loop until  
 $a=0$

c) for each loop do

$x = a \% 10$

$y = y * 10$

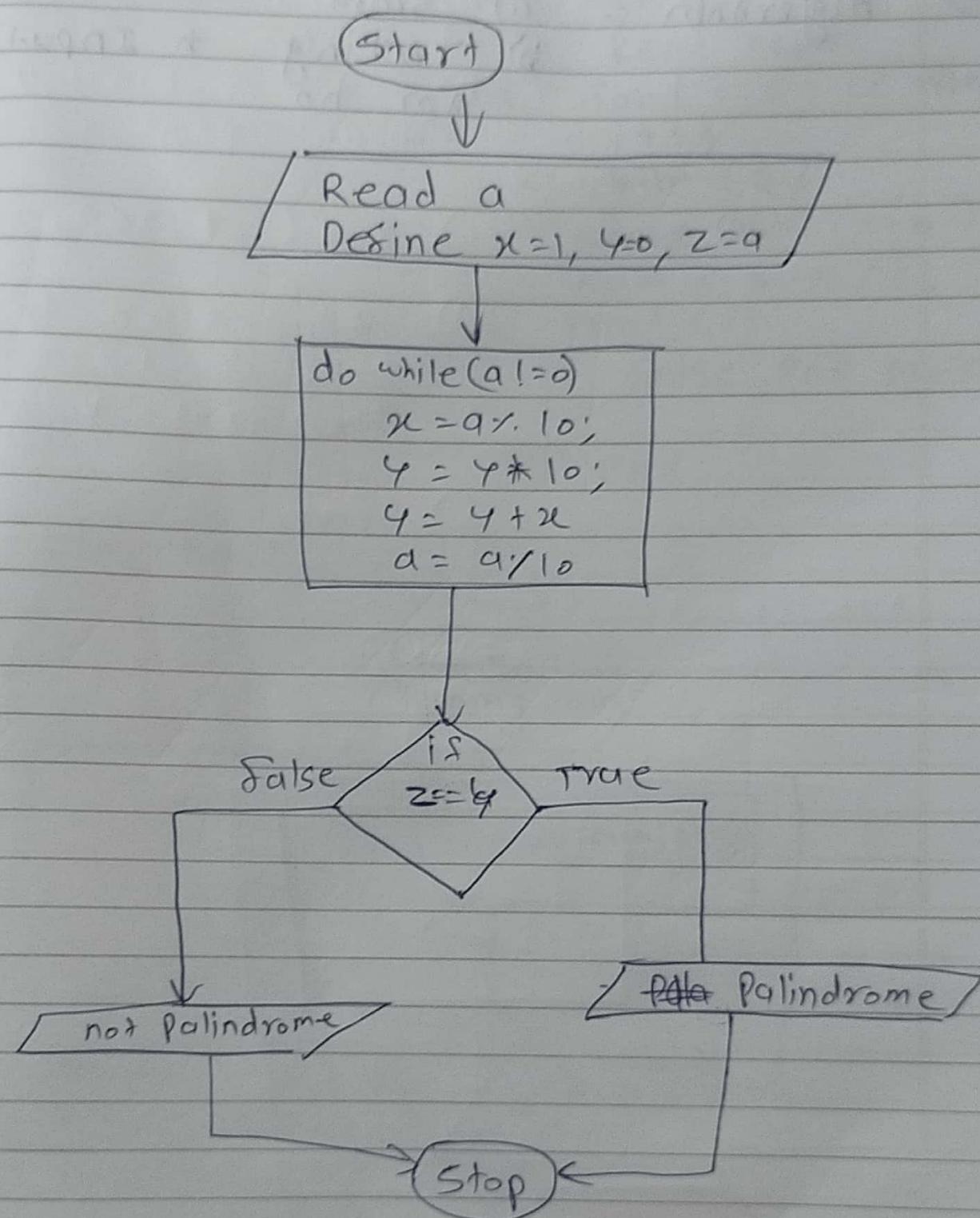
$y = y + x;$

$a = a / 10$

d) check if  $z = y$  then  
print number is palindrome  
~~else~~ if  $z \neq y$  then  
not a palindrome.

e) end.

flow chart :-

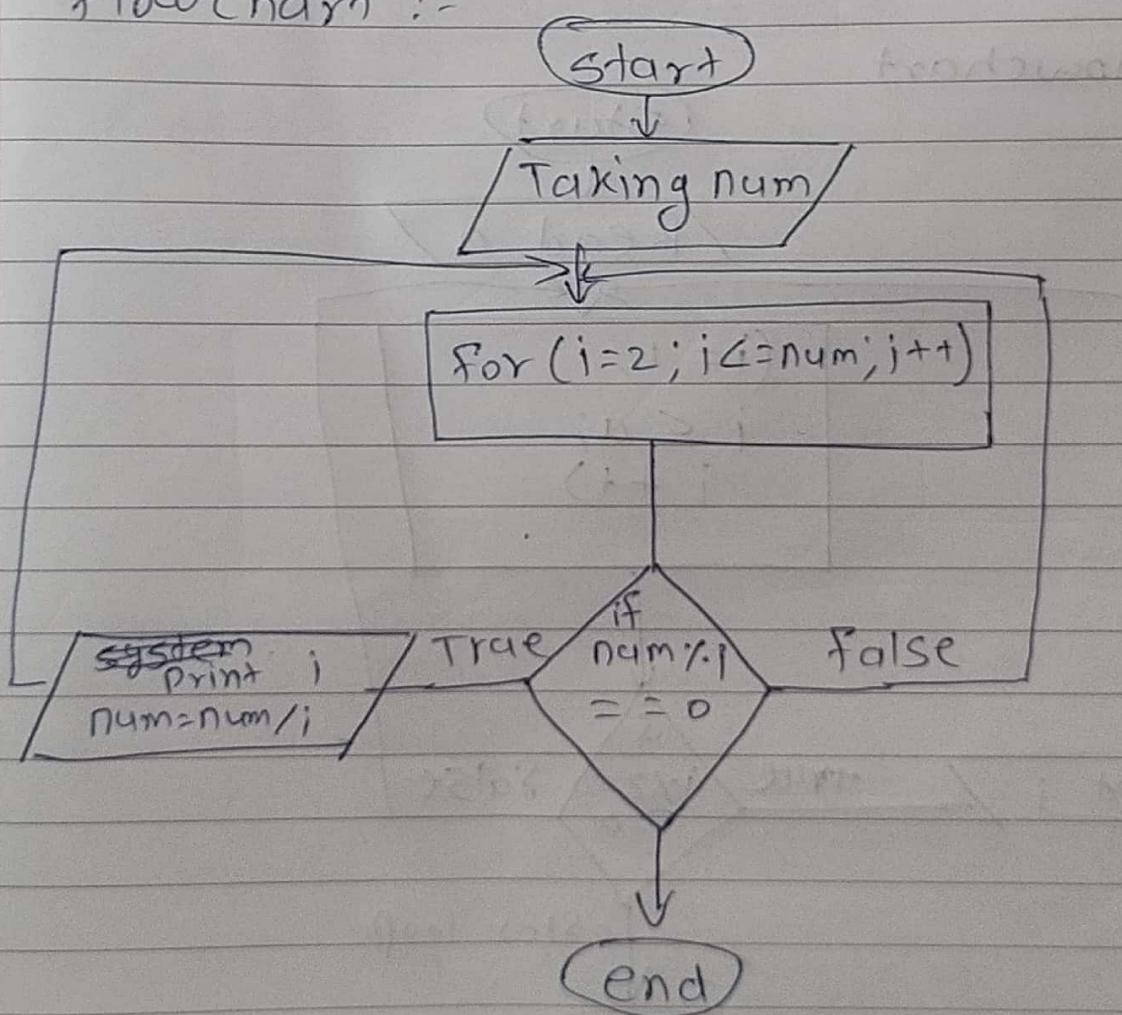


Q.18.

→ Algorithm :-

- Start
- Read num
- for ( $i=2; i \leq num; i++$ )
- white (if)
- if white (num).  $i == 0$
- $num = num / i;$
- Print (i)
- if false end process
- end.

Flowchart :-



Q19.

⇒ Algorithm :-

a) Start

b) Set num

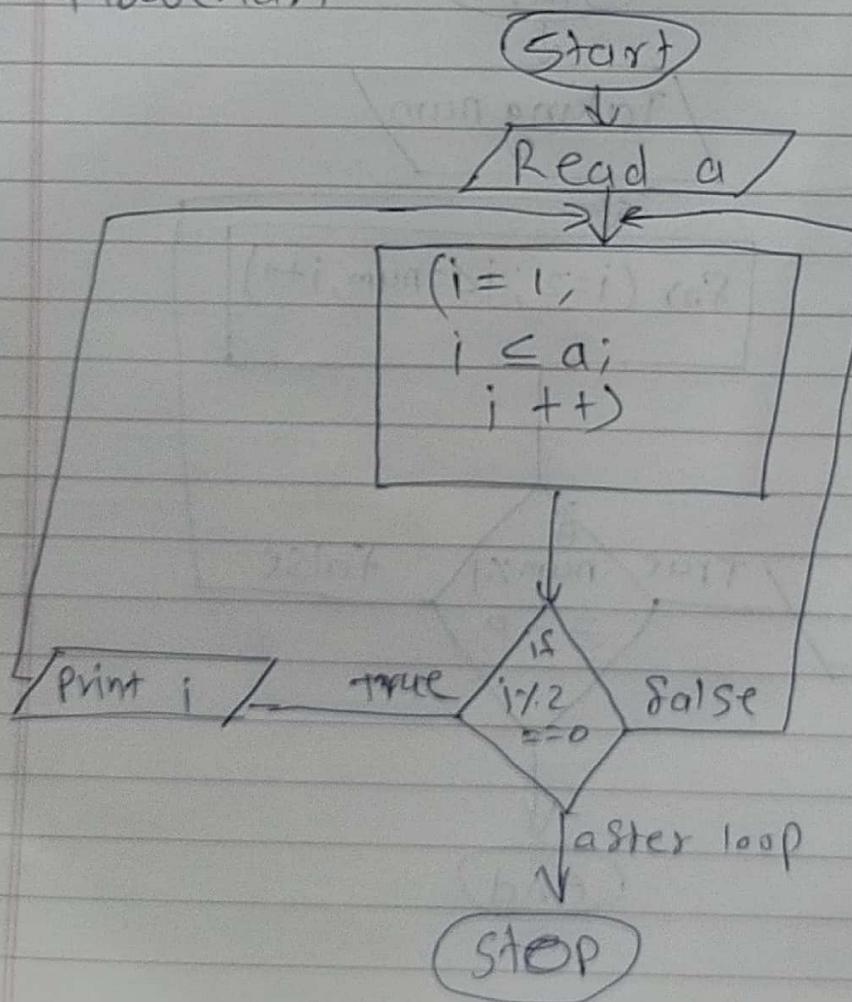
b) Read a = (until user want print even number)

c) For ( $i=1; i \leq a; i++$ );

d) For each loop  
take if  $i \% 2 == 0$   
then print value of i.

e) end.

Flowchart



8.20

- ⇒ Algorithm :-
- Start
  - Read  $a =$  (until user want to print odd number)
  - $\text{for } (i=1; i \leq a; i+1);$
  - For each loop take if  $i \times 2 != 0$  then print value of  $i$ .
  - end.

Flowchart.

