

0

Regd No 192 NO 424

Generation of number series:

1, 2, 3, 4, ... n.

Algorithm:-

Step-1 :-

Start

Step-2 :- Give $i=0$, $j=1$, $k=0$, $Fib=0$

Step-3 :-

IF $i < n$ then

Step 4 :-

Yes output

$Fibonacci(i) = Fib$

If $NO = end$

Step :- If satisfied $i < n$?

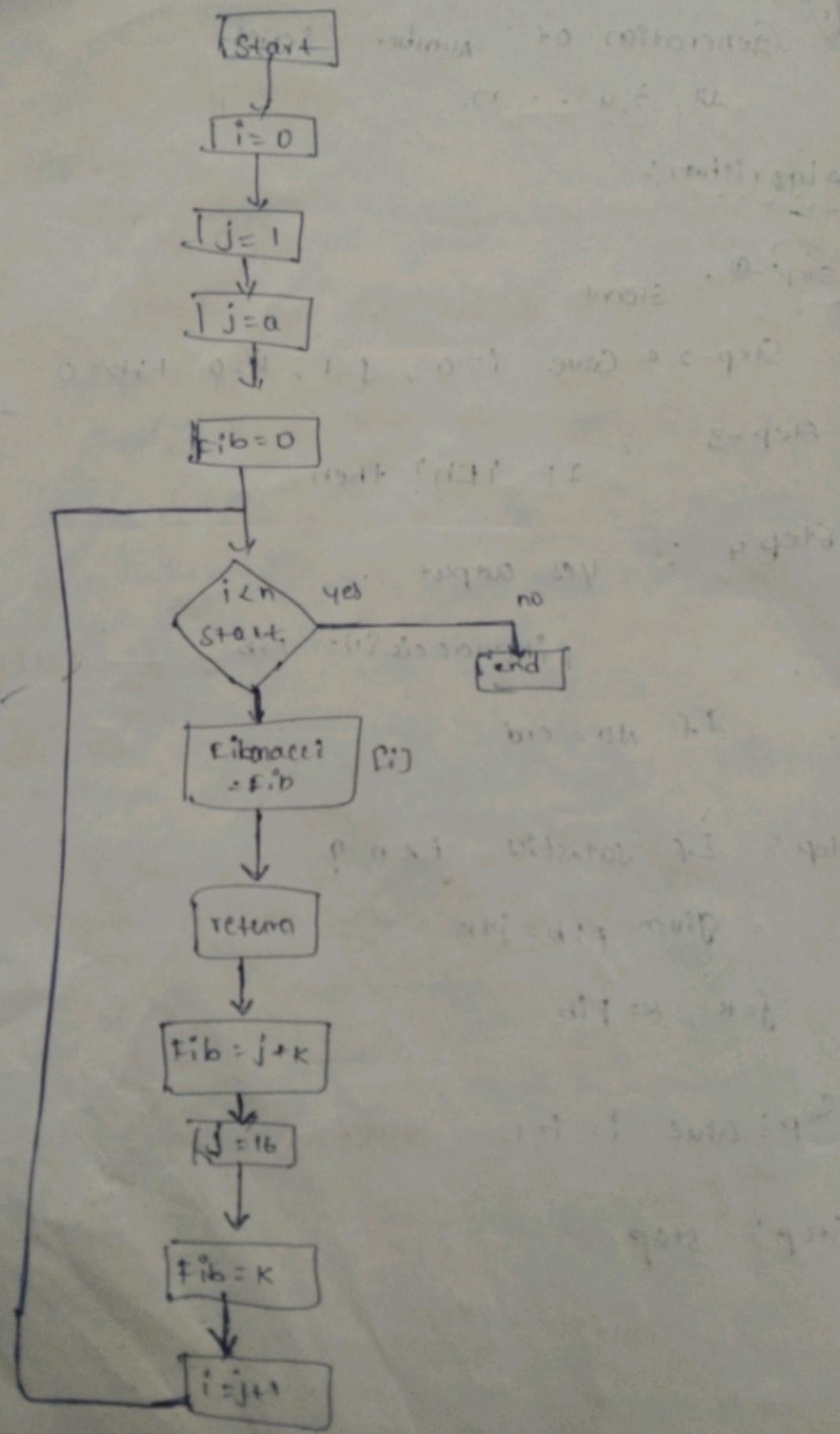
Given $Fib = j+k$

$j=k$, $k=Fib$

Step :- Give $i = i+1$

Step :- stop.

Flow chart



②

Algorithm

Step 1 - Start

Step 2 - "enter positive integer".

Get A

Step 3 : If $A >= 0$

Step 4 = yes then $A \% 2 = 0$

If it's yes put given value is even.

Step 5 : else

given value is odd.

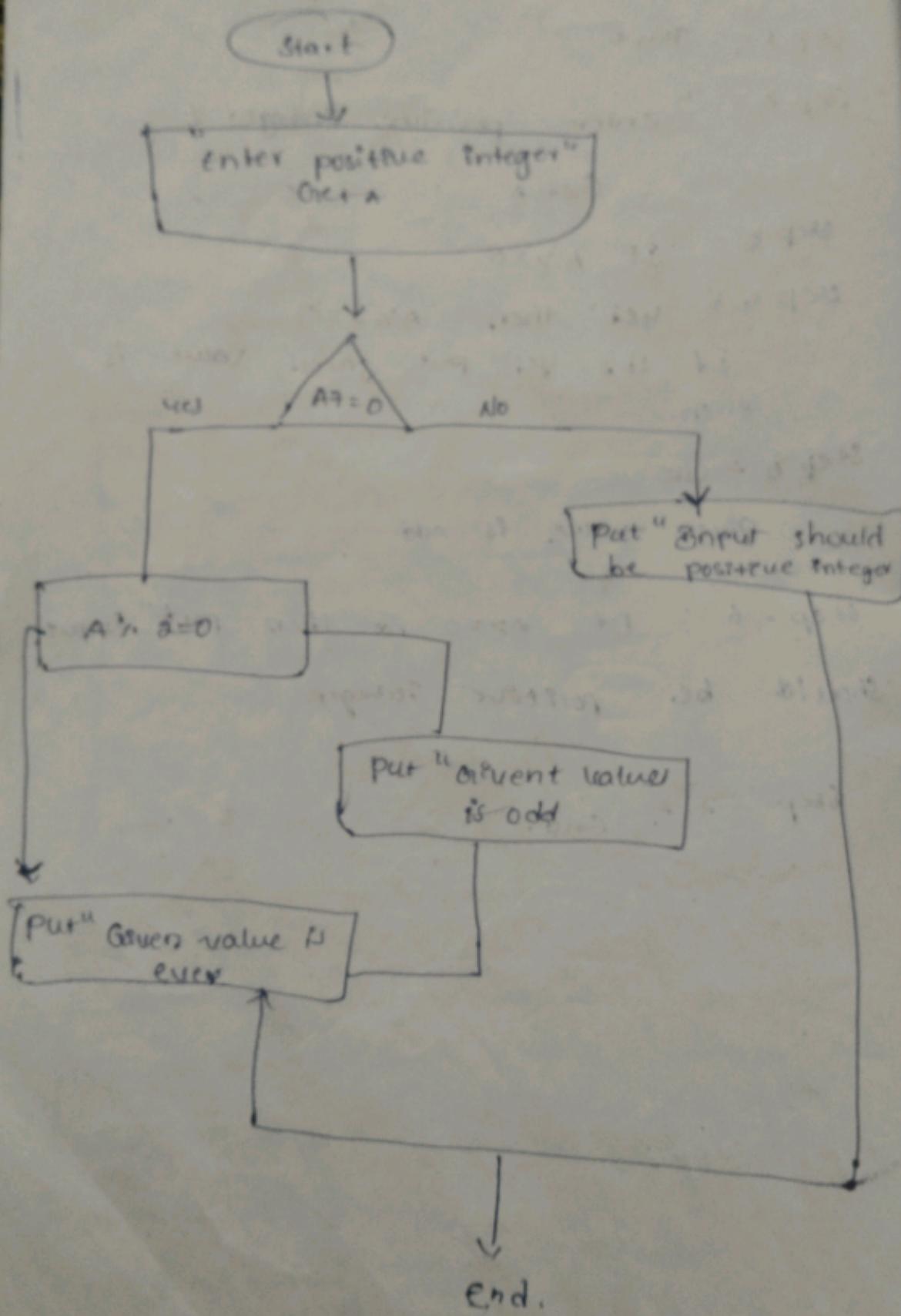
Step - 6 : If $A >= 0$ no then put "Input"

Should be positive integer

Step - 2 = end.

A value is odd

Flow chart



③ Generation of odd number series 1, 3, 5
..... n.

Summing up series $1+3+5+\dots+n$

algorithm:

Step 1 :- Start

Step 2 :- read (n)

Step 3 :- Given $i=2$, sum=0

Step 4 :- $\begin{cases} i=2, & \text{sum}=0 \\ \text{if } i \leq n \end{cases}$

Step 5 :- Then $i \leq n$ yes

$$\text{sum} = \text{sum} + i$$

$$i = i + 2$$

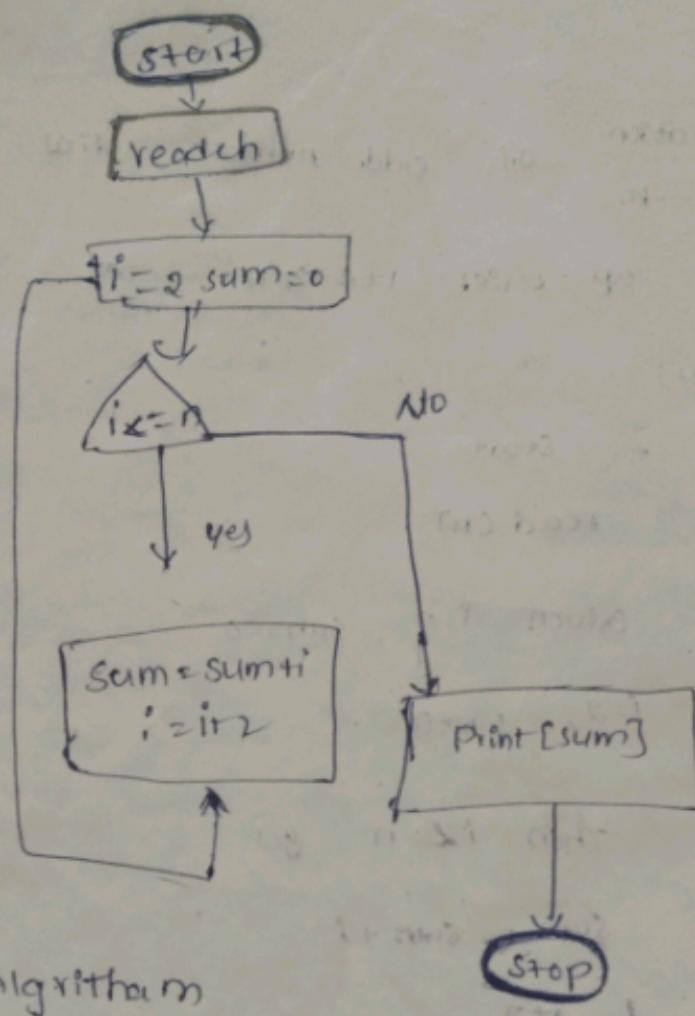
Step 6 :- no

: print(sum)

↓
Step 7 :- Stop.

Step

8c



⑥

Algorithm

Step 1 - Start

Step 2 - Given $sum \leftarrow 0$

Step 3 :- "Enter even number $\leftarrow 2$

Step 4 :- "Enter $n = \text{given } N$

Step 5 :- put " N " = $+N$

Step 6 :- give the condition ~~given~~
even number $> N$

Step 7 :- If it is true

put "sum of even numbers from 1 to N "

Step 8 :- $+ sum$

If it is not $sum \leftarrow sum + \text{even number}$.

step 9 : even number \leftarrow even number + 2

step 10 : end.

Flowchart will proceed

Report

[sum \leftarrow 0]

[even number \leftarrow 1]

[Enter n = 1
Given]

[Put "n = " + n]

[Loop]

+ n

+ n

+ n

+ n

+ n

+ n

+ n

+ n

+ n

+ n

+ n

+ n

[Even number
 \leftarrow n]

[Sum \leftarrow sum + even number]

[Even number \leftarrow n + 2]

1.1.1

[Put "sum of even numbers = " + sum]

↓

↓

↓

Sum up added at N number

Step 1: start

Step 2: declare variable i <= 1

Step 3: read n

Step 4: when condition i <= n

true → stop

Step 5: if it is false

print i

Step 6: print i + 1

Step 7: again go to condition.

start

i = 1

if read n

True → flare

print i + 1

Stop

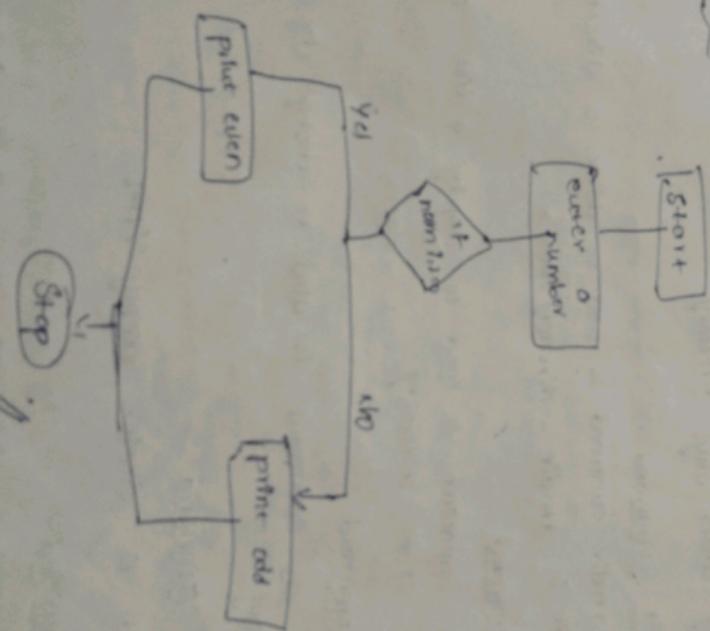
Flow

⑥ practice
ex 6

Postscript 15
the whether given
odd or even.

(Q) printing the whether given
odd or even.
Step 1 start number 1
Step 2 read number n ,
Step 3 if remainder $n \mod 2 = 0$
Step 4 $n \mod 2 = 0$
Step 5 write n even numbers
Step 6 else write odd numbers

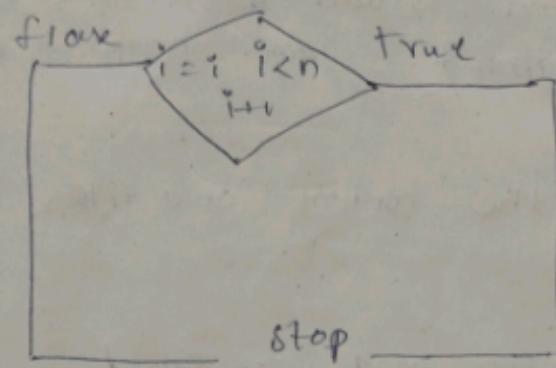
Flowchart



⑨ generation of n-numbers

Starts

Input



```
#include <stdio.h>
int main()
{
    int i, n;
    print (" enter the number ")
    for (i=1; i<n; i++)
    {
        print ("%d", i)
    }
}
```

Strong
A lgmt
⑩ Step 1:
Step 2:
Step 3:
Step 4:
Step 5:
Con
Su
Step 6:
pre
else
not
Step

Strong or not

Algorithm:

(1) Step: start

Step 2: "Take input
given Assign sum=0

Step 3: Read the number, num

Step 4: Assign temp = num

Step 5: whether the temp=0 then

Compute digit = temp % 10

sum = sum + [digit + 0]

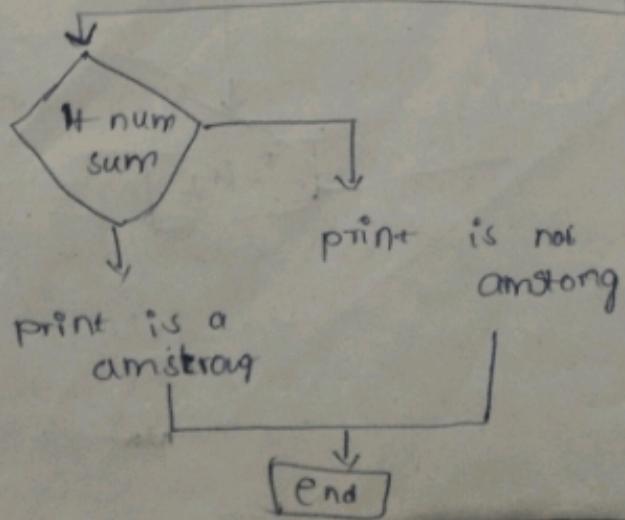
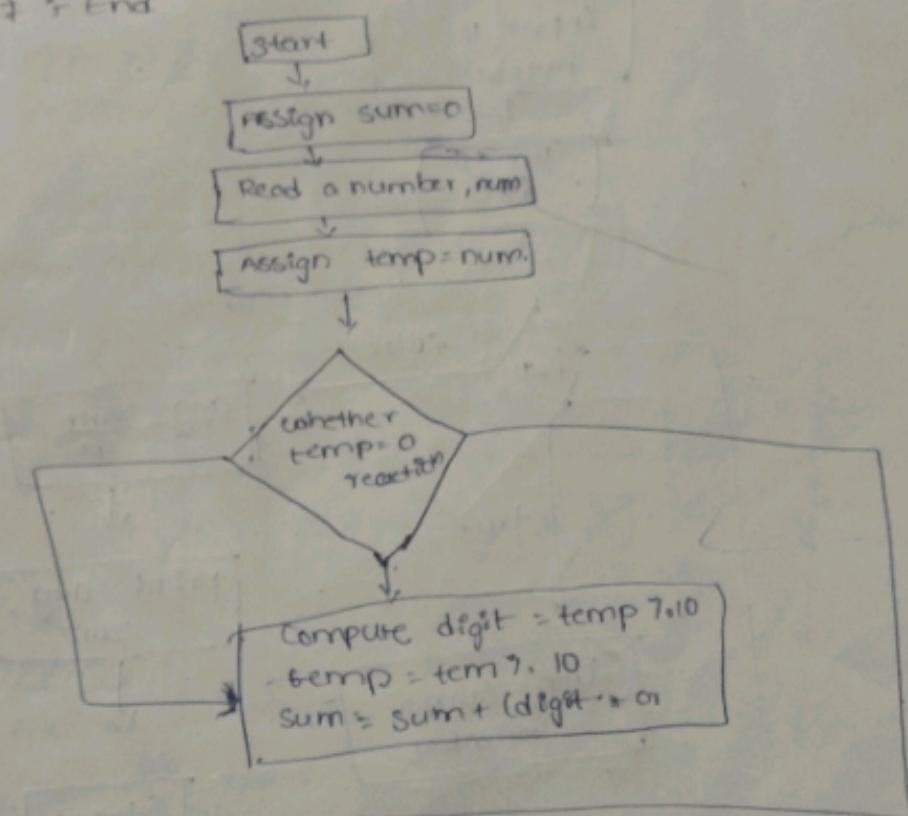
Step 6: if num == sum

print it is Armstrong

else

not Armstrong

Step 7: End



(1) summing of n numbers & and finding average.

Algorithm

start → start

Step 2 : take input of the number and initially
the sum to 0

Step 3 : Start adding numbers one by one to sum
until the last number.

Step 4 : Divide the sum obtained by then.

Step 5 : print the average and sum.

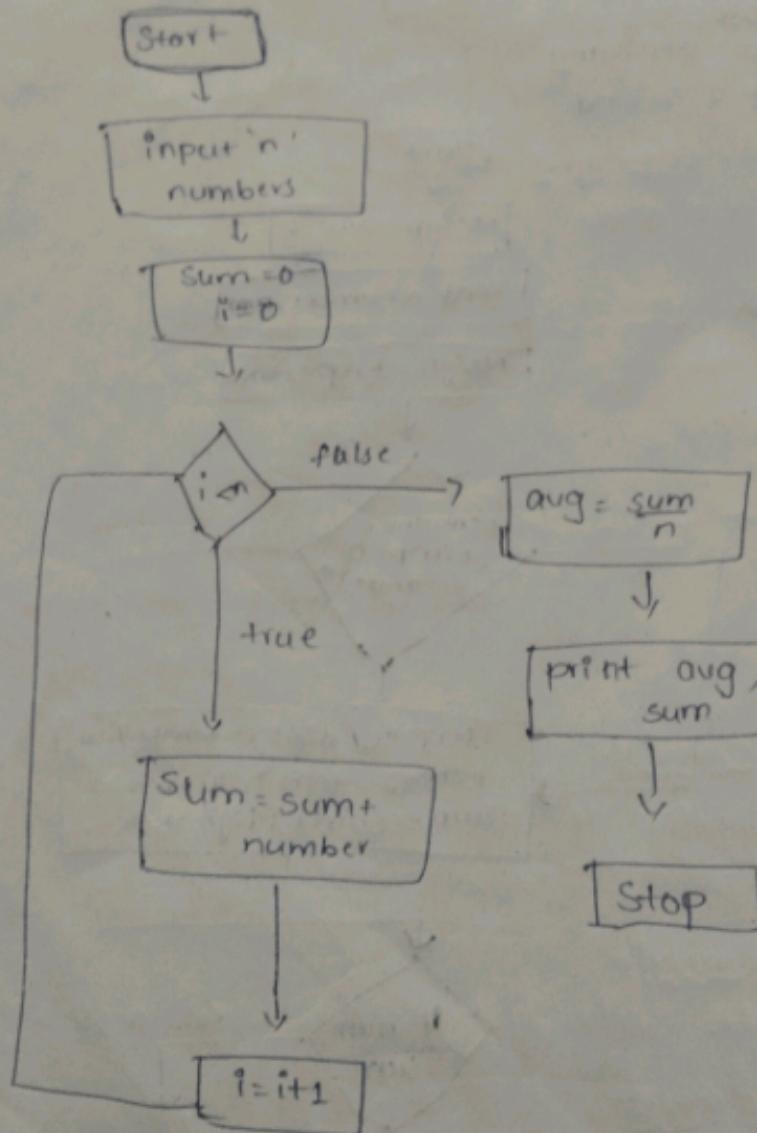
(2) Step 1 : start
Step 2 : input
Step 3 : calculate
Step 4 : output

repeat

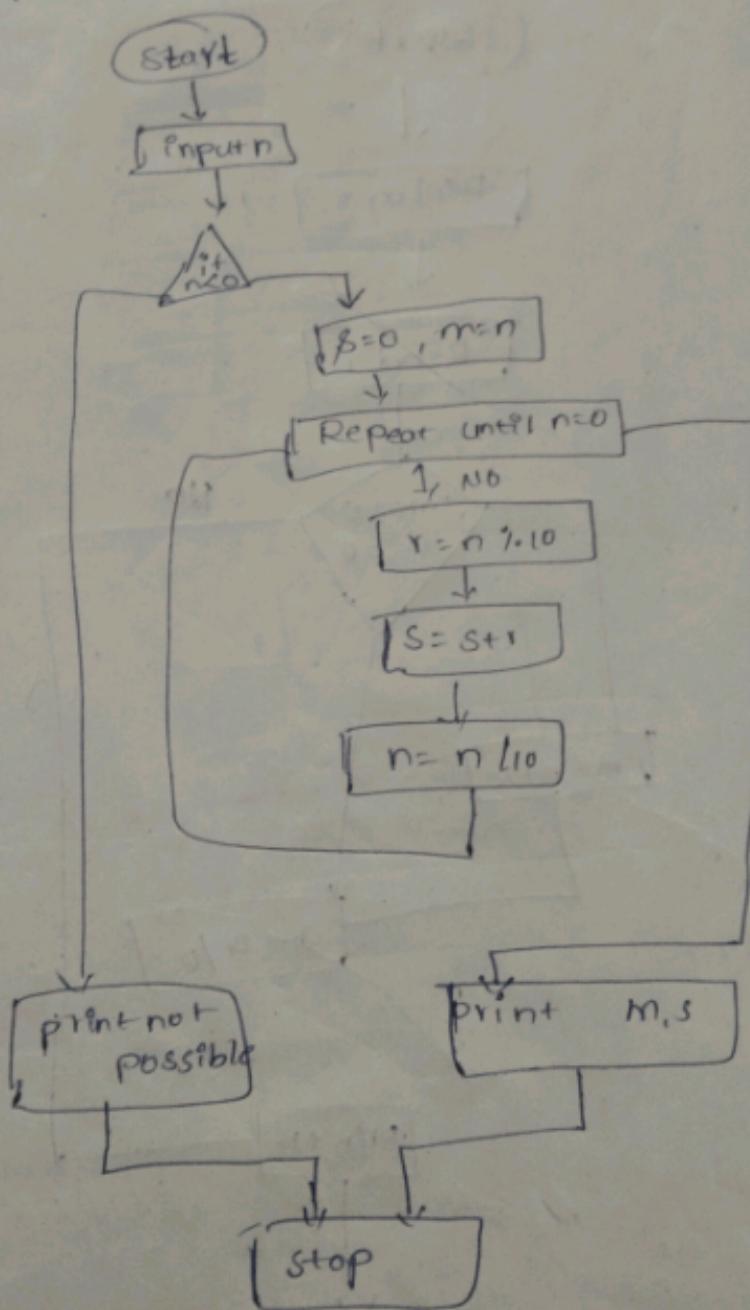
Step 5 : then

Step 6 : no

Step 7 : stop



iab-8
 STEP 1 : Start
 STEP 2 : Input n
 STEP 3 : Give condition if $n \geq 0$ Yes then print
 not possible.
 STEP 4 : If it is no, ~~intize~~
 $s=0 \quad m=1$
 repeat until $n=0$
 STEP 5 : take $r=n \% 10$ and
 $s = s+r$ and $n = n / 10$ input it
 STEP 6 : Again it goes repeat until and print m,s
 STEP 7 : Stop.



printing the digits of an Integer numbers.

Step-1 : Start

Step-2 : Declare variable a and n and Read a

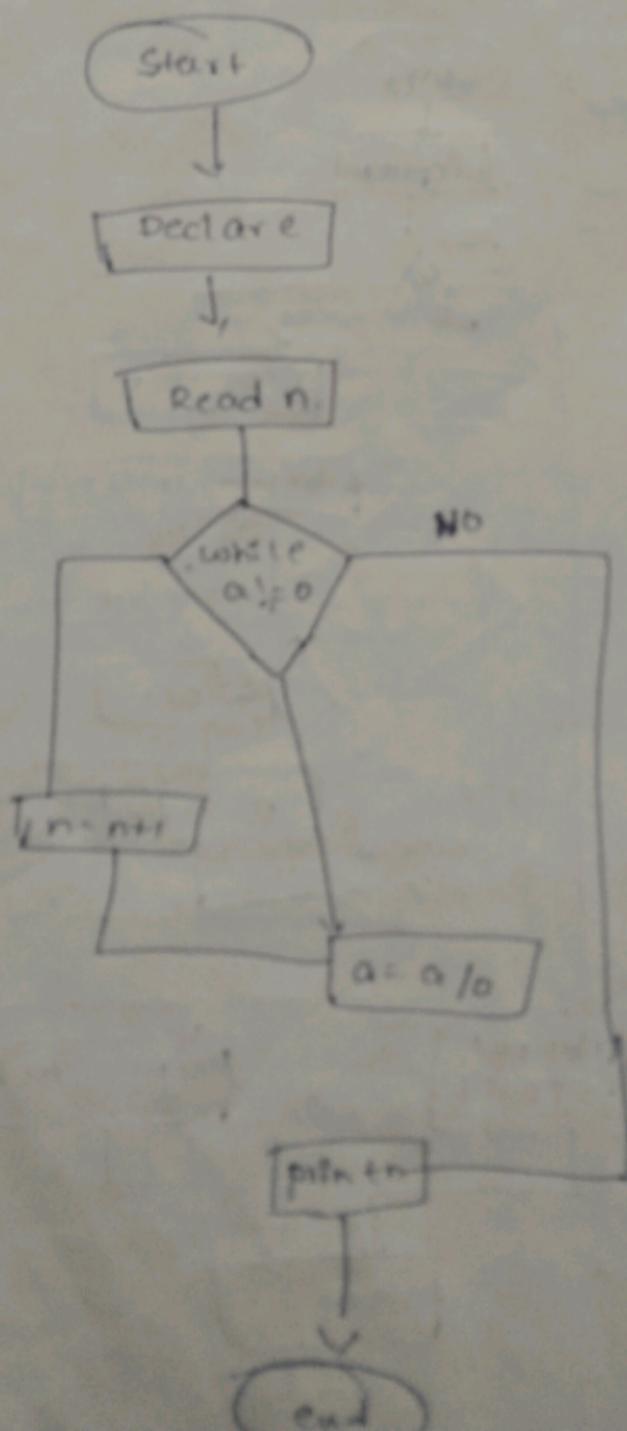
Step-3 : Give the condition while ($a \neq 0$)

Step-4 : If it is then $a = a/10$ and it is repeat
to next.

Step-5 : But it is no print n

Step-6 : End.

Program
Step 1 :
Step 2 :
Step 3 :
Step 4 :
Step 5 :
End



numbers.

Read a

Algorithm:

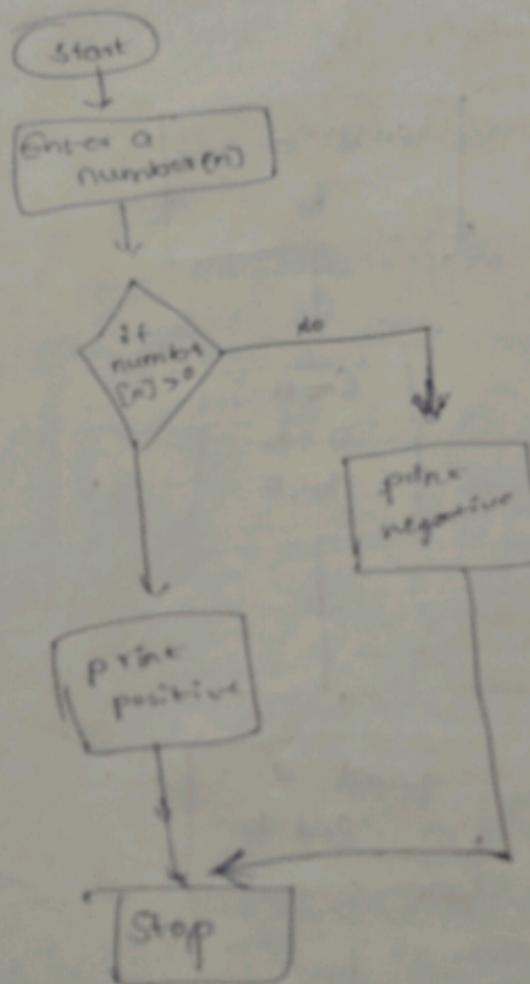
Step 1: Start

Step 2: Given Condition if $n > 0$
Yes \rightarrow positive

Step 3: No \rightarrow negative

Step 4: End

find whether given is positive or negative



16. Swapping of numbers with 0 temporary variable

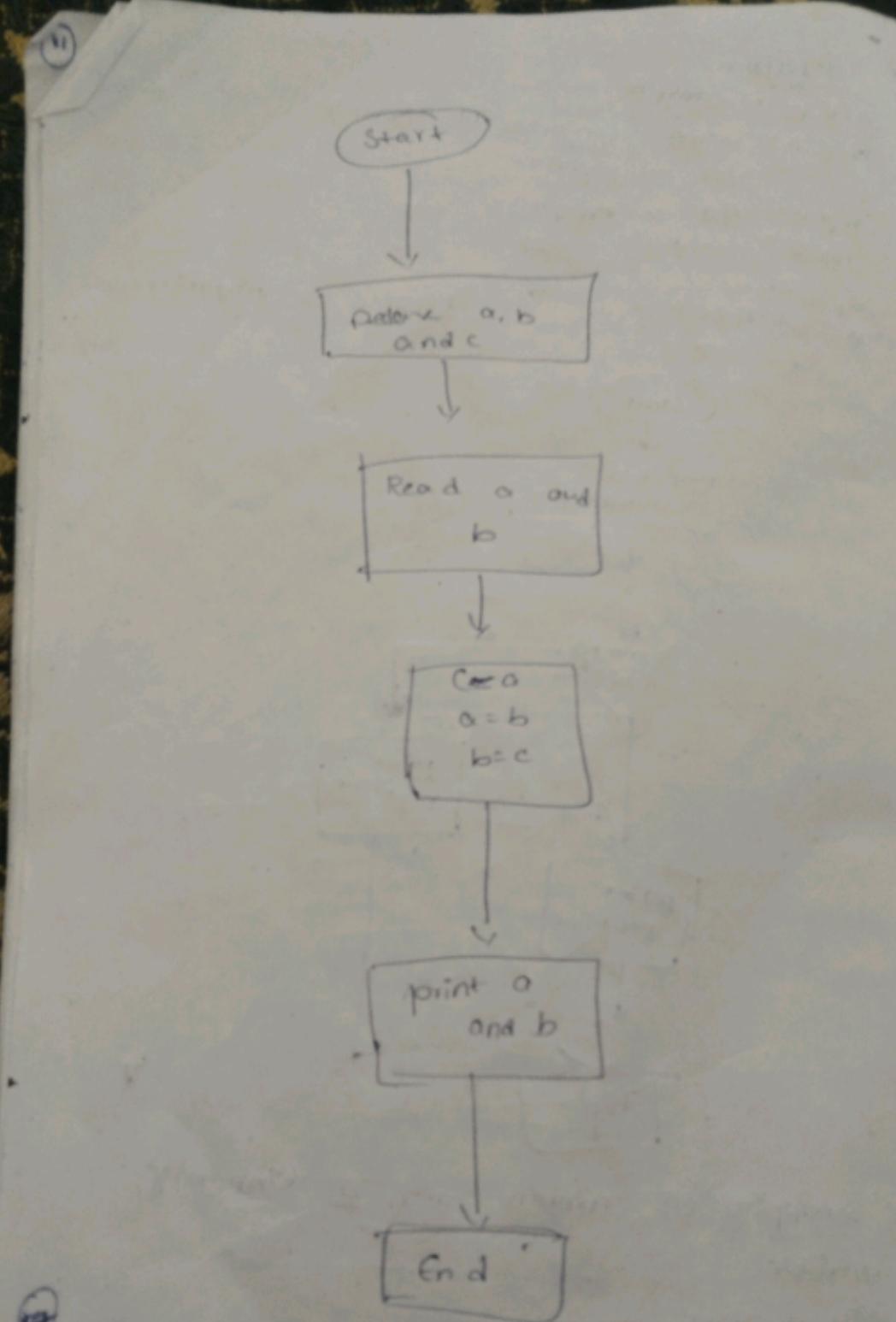
Step 1: Start

Step 2: Declare variable a, b, and c

Step 3: Read a and b

Step 4: Give $c = b$, $a = b$, $b = c$

Step 5: End



P To convert decimal to hexadecimal
 Step 1 = Start
 Step 2 = Input num
 Step 3 = Len = 0.8 if num
 Step 4 = while (y > 0)
 Step 5 = NEX.