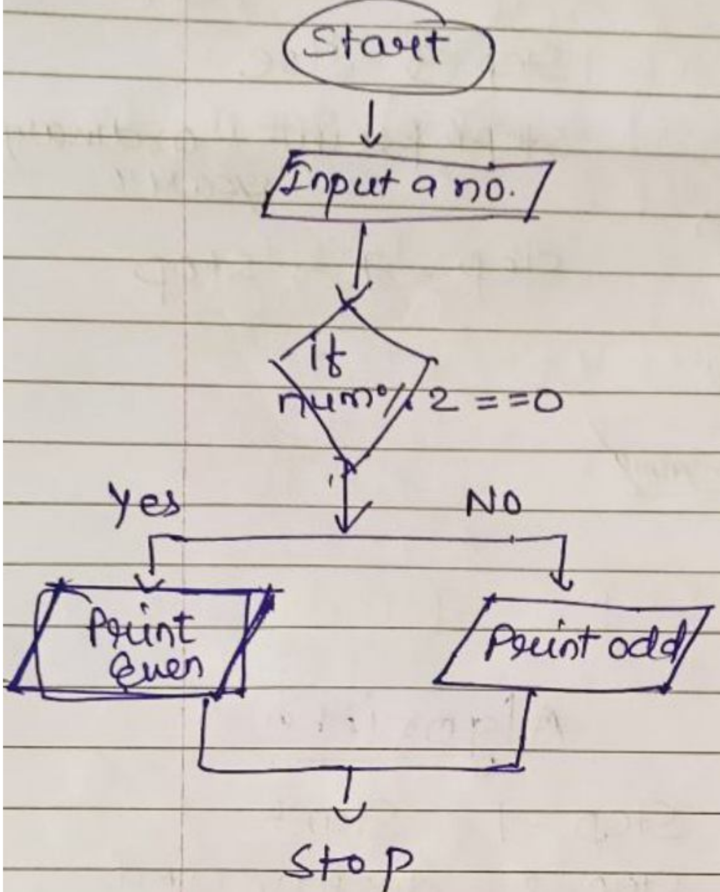
Tushar Pandey

1

Assignment - 1

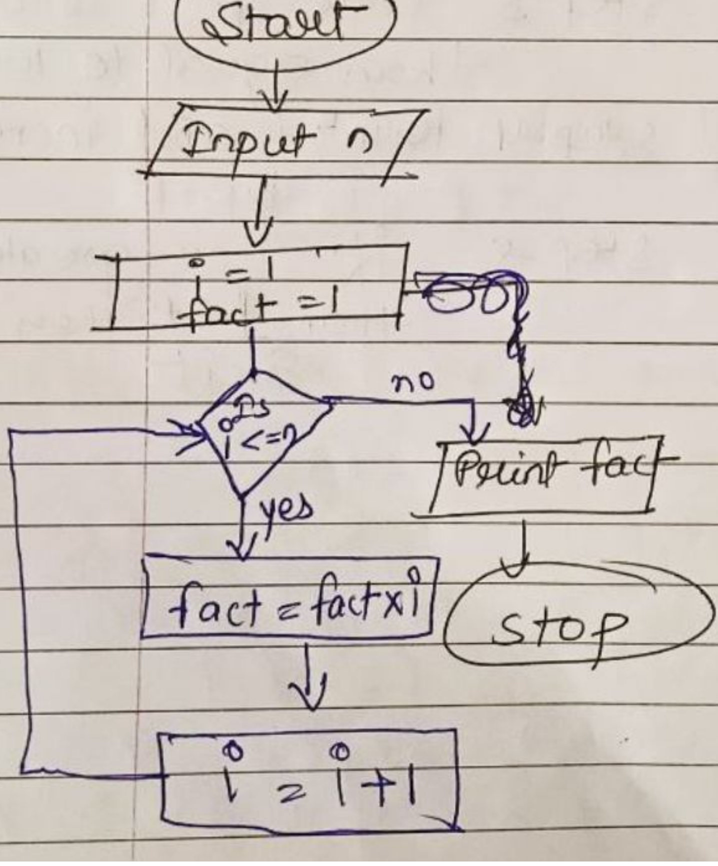
① Even/odd



Algorithm

Step-1 : Start
Step 2 : Input a no. to N
Step 3 : divide the no. by 2 and Store the Remainder in R
Step-4: If R=0, then Print N is even.
Step-5: if R=1, then Print N is odd.
Step 6 Stop

② factorial of no.

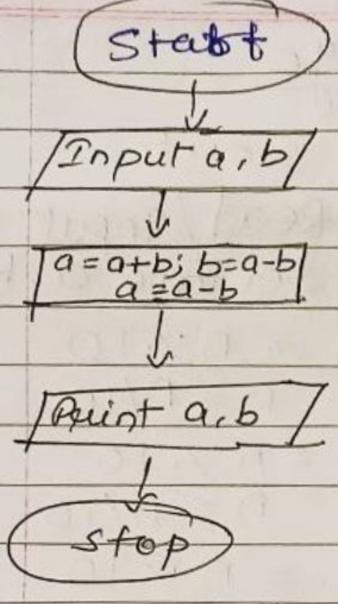


Algo

Step 1 ; Start
Step2:- Input a no.
Step3 : Initialize variables
i = 1 fact =1
Step4:- If i<=n then move further otherwise Print Stop
Step-5 :- calculate
fact = fact * i
Step 6 ; Then i = i+1 then Start Step-4
Step-7 Print fact
Step-8 Stop

Swap two no. without using third variable

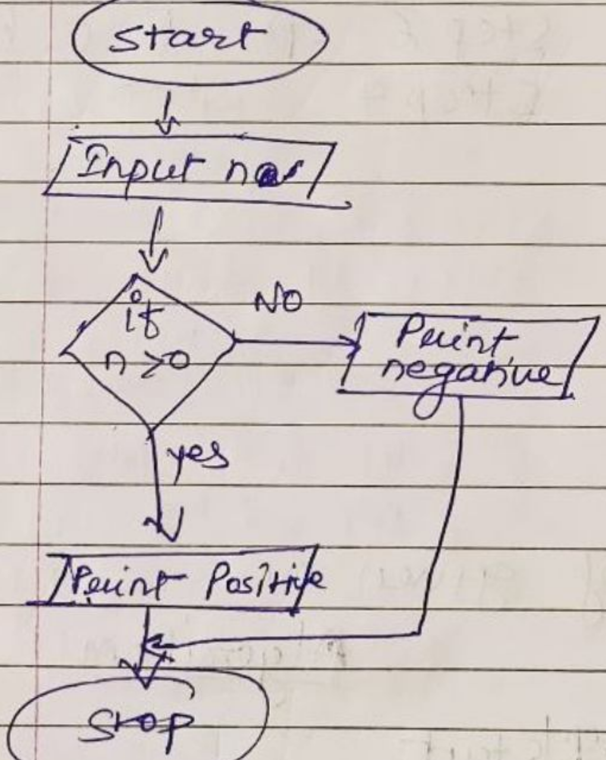
(4)



Algo

Step-1 : Start
Step2 : Input a, b
Step-3 : $a = a+b$
Step-4 : $b = a-b$
Step-5 : $a = a-b$
Step-6 . Print a, b
Step - Stop

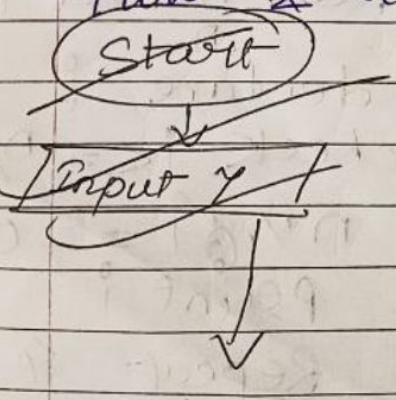
(5) How to check whether given no is +ve & -ve



Algo

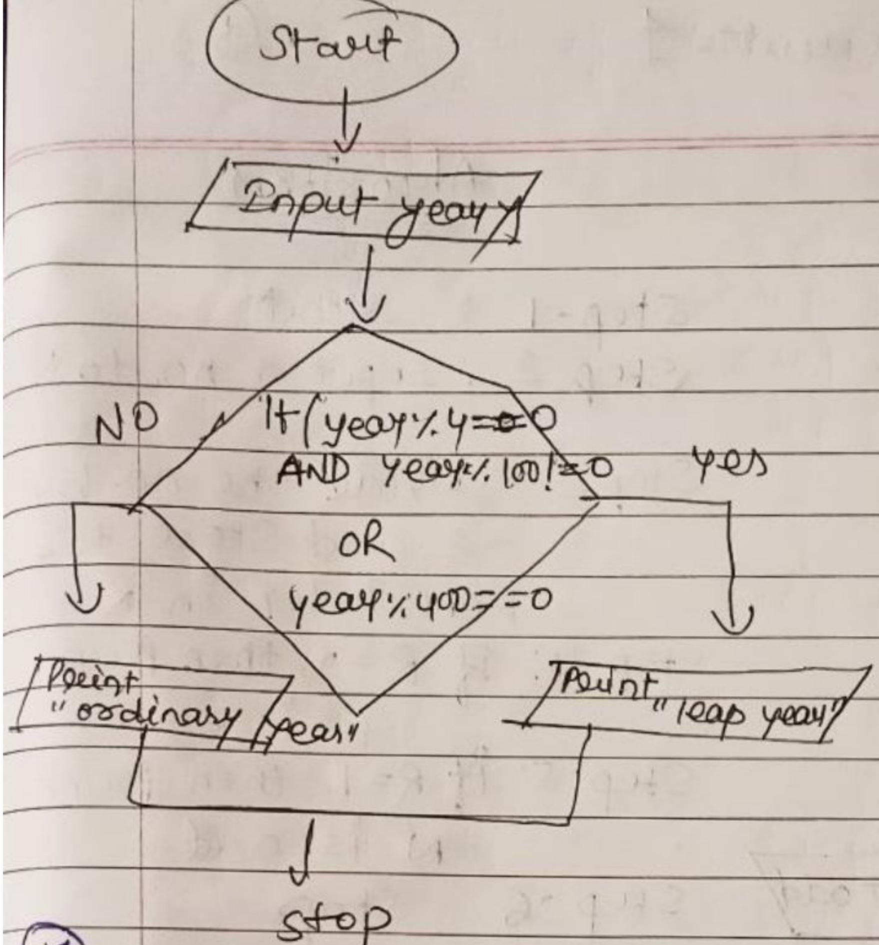
Step-1 Start
Step-2 :- Input n
Step-3 : if $n > 0$
Step 4 :- Print "Positive"
Step-5 :- Else
Step-6 .- Print "negative"
Step7 : Stop

(6) flow & algo. to check leap year or not



Algor

Step-1 - Start
Step-2 → Input year
Step-3 if year % 400 == 0
OR
year % 4 == 0 AND
year % 100 != 0



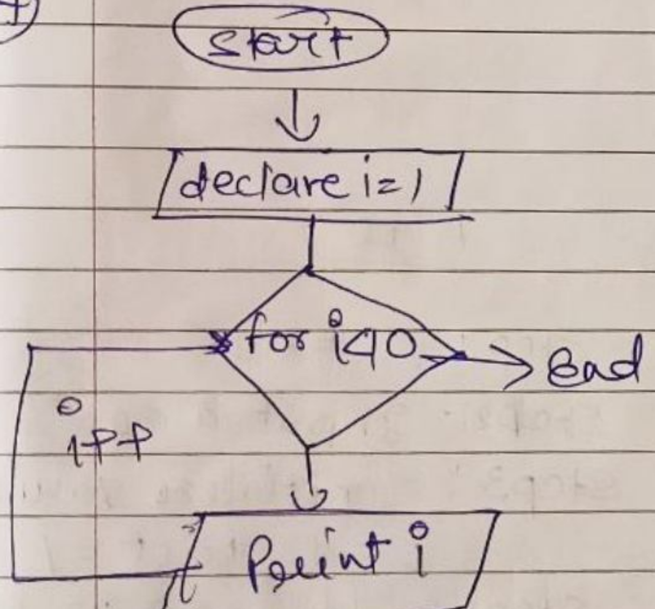
step-4 Print "leap year"

Step-5 else

step6 Print "ordinary year"

Step-7 - stop

(7)



Algorithm

Step-1 Start

Step-2 declare and initialize i = 1

Step-3 Check if i is less than equal to 10 then

Step-4 Print i and increase i by 1

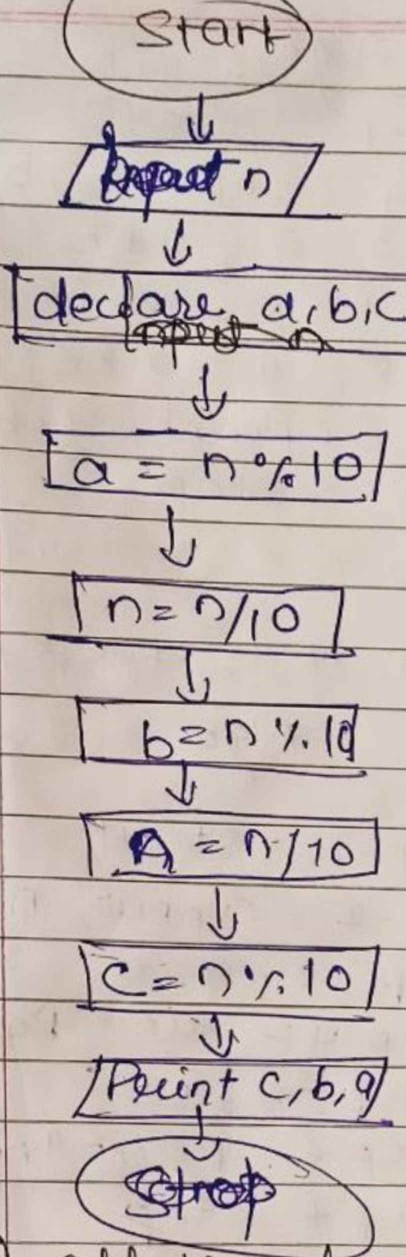
Step-5 if i is greater than ~~10~~ then Exit

Print digit of given no. (4)

Page No. :

Date :

(8)



Algo

Step-1 Start

Step-2 Read/Input n

Step-3: declare a, b, c

a = n % 10

n = n/10

Step-4 b = n % 10

n = n/10

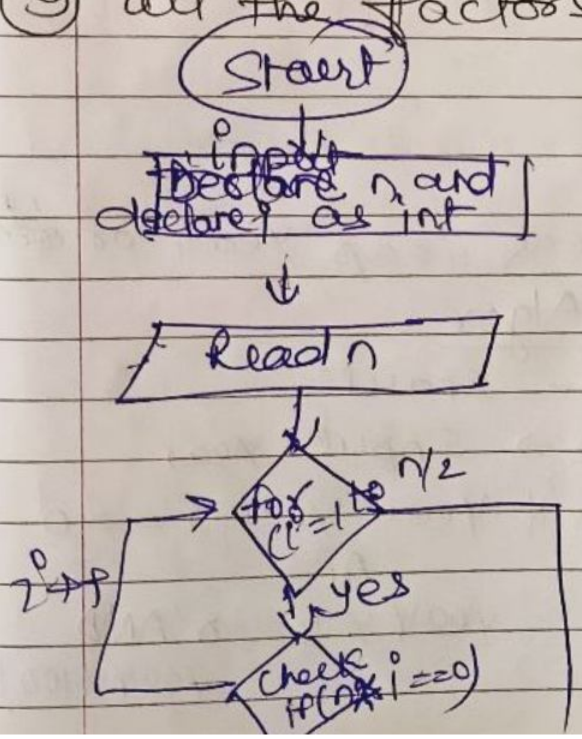
Step-5 c = n % 10

n = n/10

Step-6 - Print c, b, a

Step-7 Stop

(9) all ~~the~~ factors of given no.



Algorithm

Step 1 Start

Step-2 Read number input n

Step-3 declare i

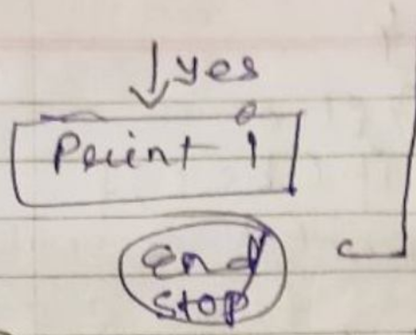
Step-4 check i<=n/2

Step-5 n % i == 0

Step6- Print i

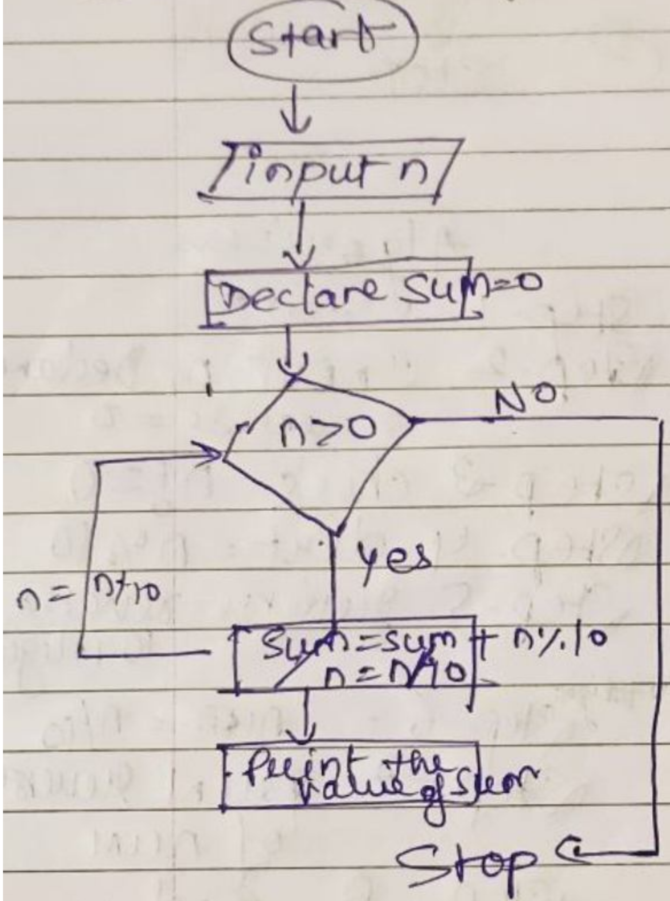
Step-7 Repeat 4

Step-8 - If i >= n/2



step -' stop

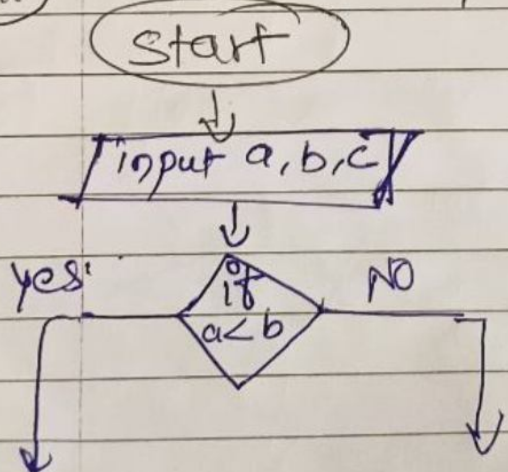
(10) sum of digit of given no.



Algor.

step1 - start
step-2 input n
Step-3 Declare sum=0
Step-4 n>0
Step-5 if true sum = sum + n%10
Step-6 n = n/10
Step-7 if not true (n>0) then End.
Step-8 Print sum
Step -9 End.

(11) Smallest of three no.

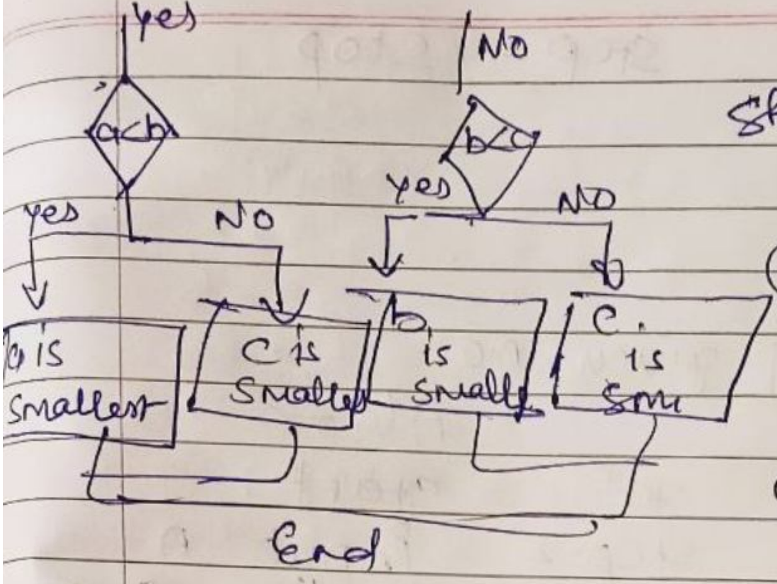


Algorithm

Step1 - Start Declare
Step-2 - Input a,b,c
Step3: if (a<b)
{ if (a<c)
{ print a is smal
}
step-4 Else
Print c is smalle

Pg 6

Page No. :
Date :

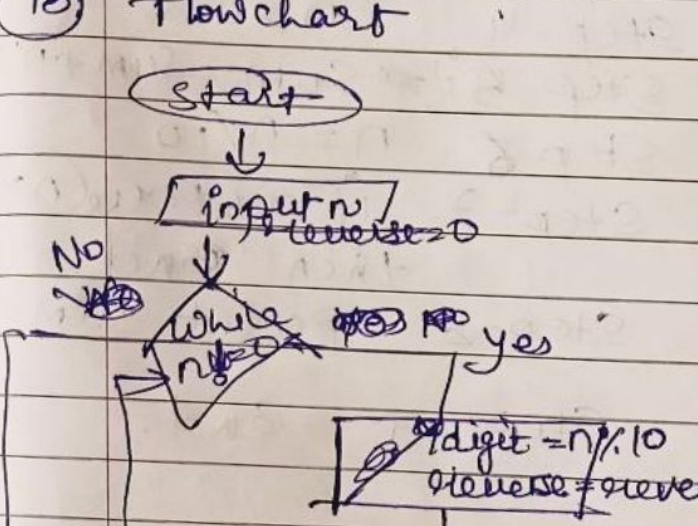


}

Step 5 } Else
{ if (b<c) {
print b is smallest no
6 Else{ print c is small
}
}

7 Stop

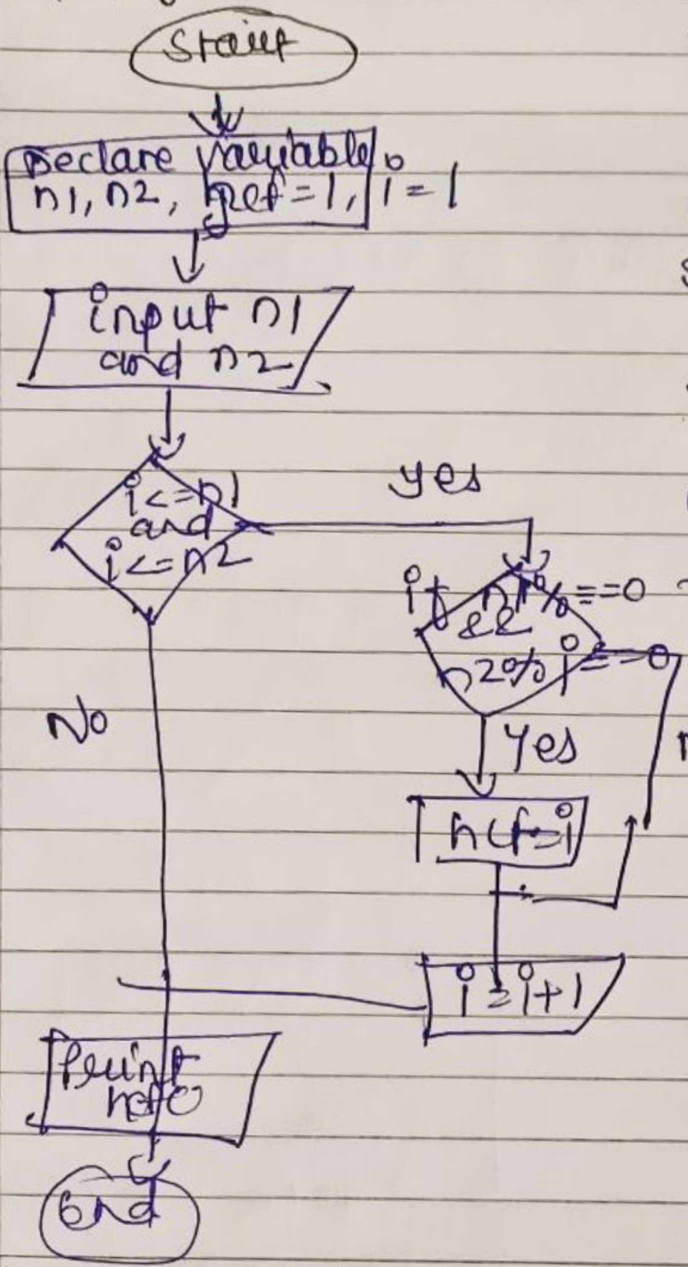
18 flowchart



Algorithms

Step-1 start
Step-2 Input n, Declare reverse = 0
Step-3 check n != 0
Step-4 digit = n%10
Step-5 reverse = revers x 10 + digit
Step-6 = num = n/10
Step-7 print reverse of num
Step-8 End.

Q.14 HCF of two no.



Algorithm

Step-1 Start

Step-2 Declare variable n1, n2, hcf = 1, i =

Step 3: Input n_1 & n_2

Step-4: Repeat until i <= n1 and i <= n2

Step-5 If n1 % i == 0 && n2 % i == 0

Step-6 hcf = i

Step-7 Print hcf

Step-8 Stop

Q.15