

## Calculate Area and Perimeter

Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:

STEP-1: Start

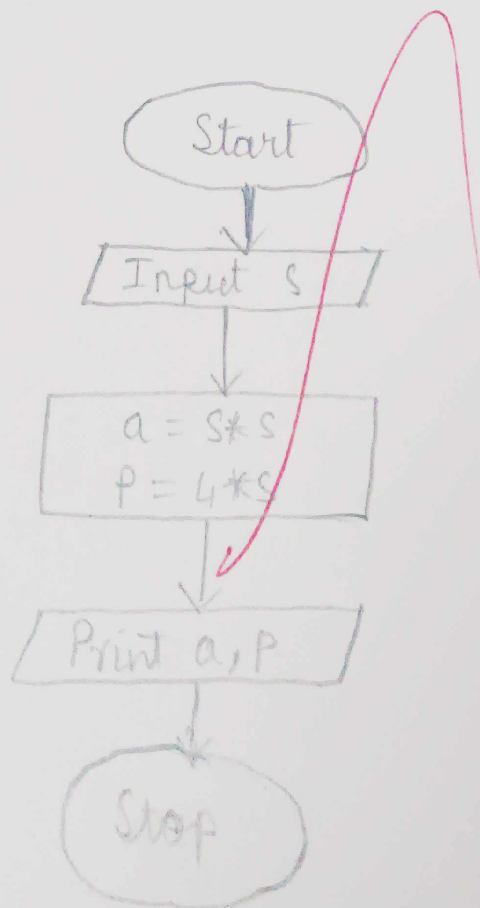
STEP-2: Input  $s$

STEP-3: Calculate area( $a$ ) as  $s * s$  and perimeter as  $4 * s$  and store in  $a$  and  $p$

STEP-4: Print  $a$  and  $p$

STEP-5: Stop

Flowchart:



R  
26/9/24

Ex. No.: 2

Date: 26/9/24

## Days to Year Conversion

Write an Algorithm and draw a Flowchart to convert the given days into years & months.

Algorithm:

STEP-1: Start

STEP-2: Get total numbers of days

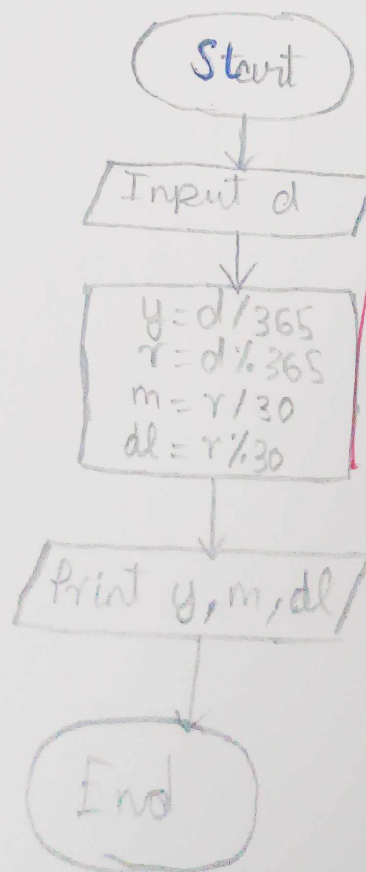
STEP-3: Initialise days in years to 365 and days in months to 30.

STEP-4: Calculating remainder days by dividing days to 365 and remaining days by 30 to find months and days left will be

STEP-5: Print <sup>left</sup> y, m, dl

STEP-6: End

Flowchart:



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Ex. No.: 3

Date: 26/9/24

## Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm: STEP-1: Start

STEP-2: Input  $n$

STEP-3: Set  $i = 2$

STEP-4: Check if  $n < 2$  then go to step 5 else go to step 6

STEP-5: Print composite and go to step 8

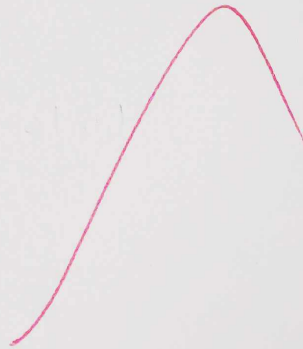
STEP-6: IF  $n \% 2 = 0$  print ('~~prime~~<sup>composite</sup>') else print ('Prime')

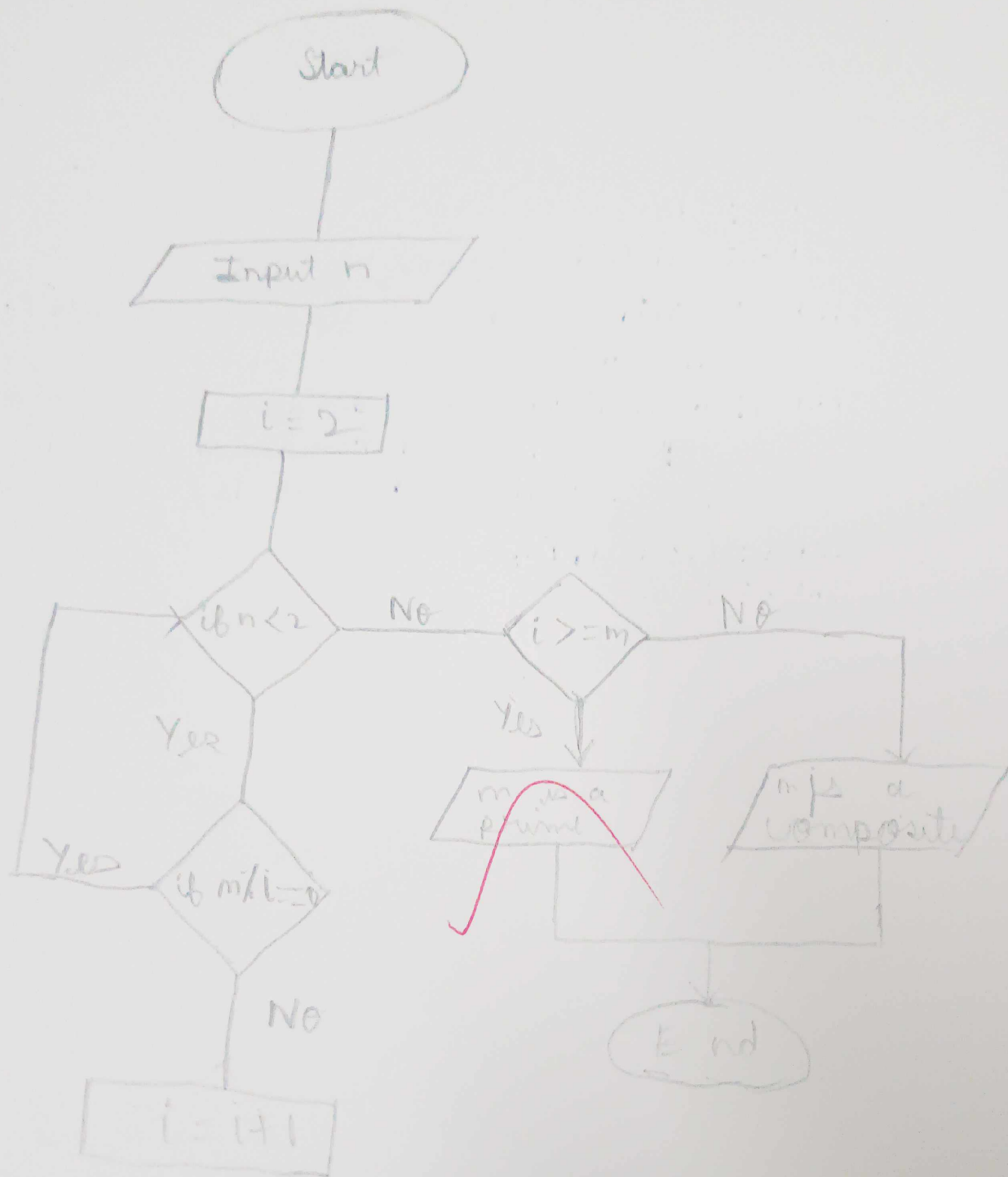
STEP-7: Repeat step 6 and until  $i \leq \sqrt{n}$

STEP-8: Stop

Flowchart:

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## Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

Algorithm:

STEP-1: Start

STEP-2: Input  $y$

STEP-3: If  $y$  is divisible by 4:

• If  $y$  is divisible by 100:

• If  $y$  is divisible by 400:

print("Leap year")

else:

print("Not")

STEP-4: else:

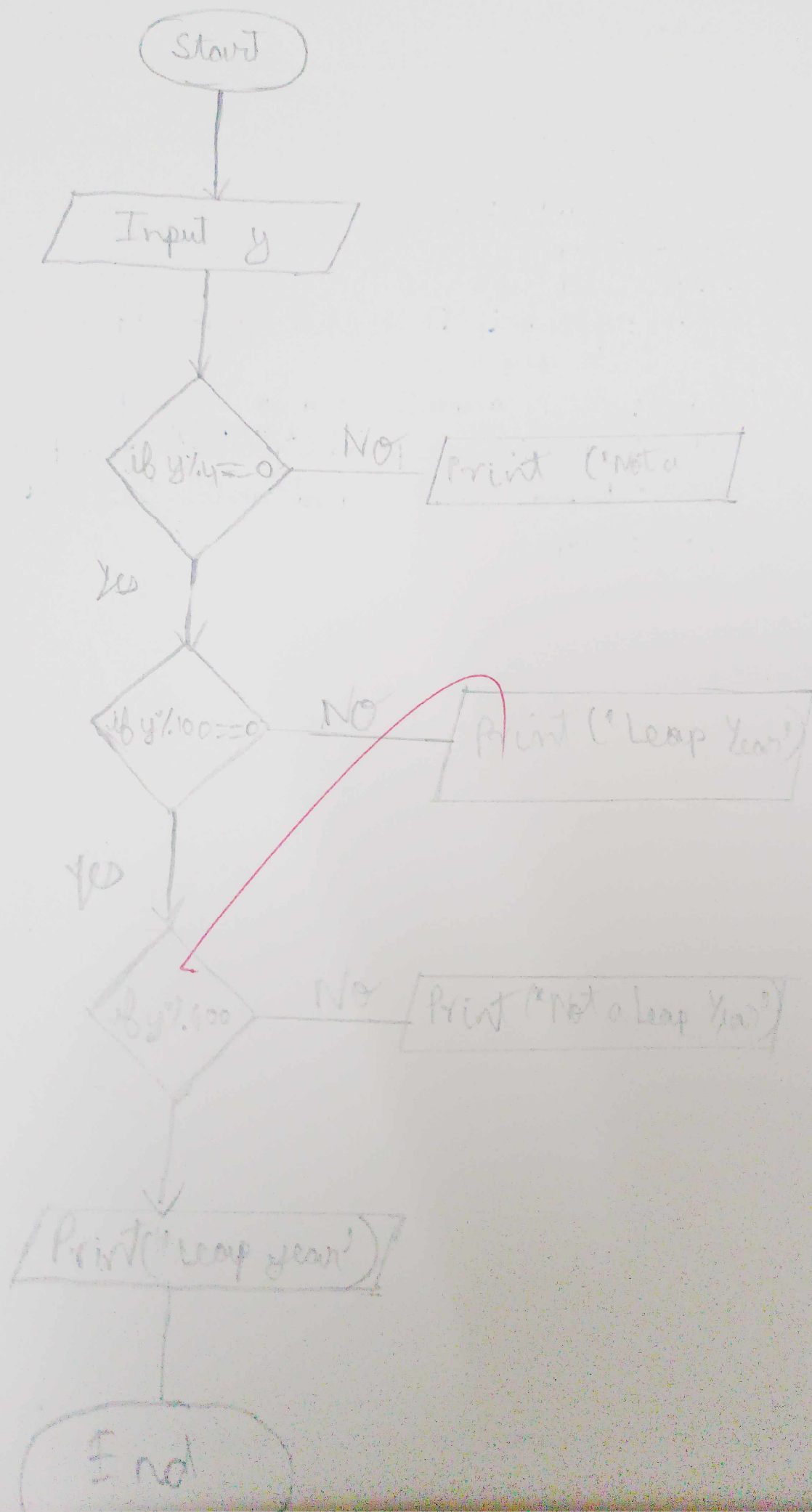
Flowchart:

print("Not")

STEP-5: Stop

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Date: 28/9/24

## Palindrome Number

Write an Algorithm and draw a Flowchart to check whether the given number is palindrome number or not.

Algorithm:

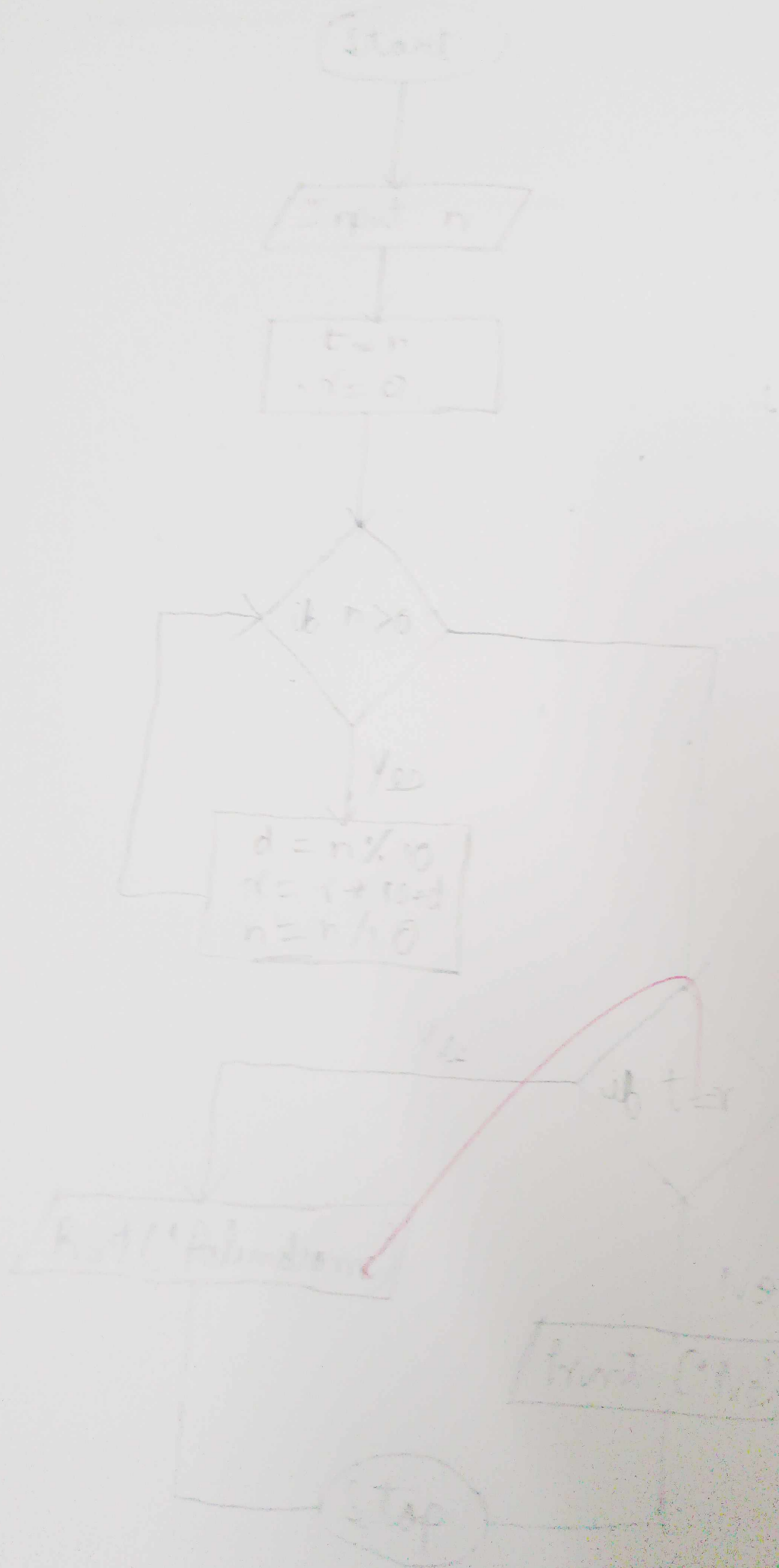
- STEP-1: Start
- STEP-2: Input  $n$
- STEP-3: Set  $t = n$  and  $r = 0$
- STEP-4: while  $n$  greater than 0:
  - $d = n \% 10$
  - $r = r * 10 + d$
  - $n = ~~n~~ n / 10$

Flowchart: STEP-5: if  $t$  is equal to  $r$ :  
print ('Palindrome')

STEP-6: else:  
print ('No')

STEP-7: End.

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Ex. No.: 6

Date: 28/9/24

## Sum of Digits

Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm:

STEP-1: Start  
STEP-2: Input  $n$ .  
STEP-3: Initialise  $s = 0$   
STEP-4: while  $n$  is greater than 0:  
     $d = n \% 10$   
     $s = s + d$   
     $n = n / 10$

Flowchart: STEP-5: Print  $s$

STEP-6: End.

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