Ex. No.: 2 **Date:** 21/09/24

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 : Read length

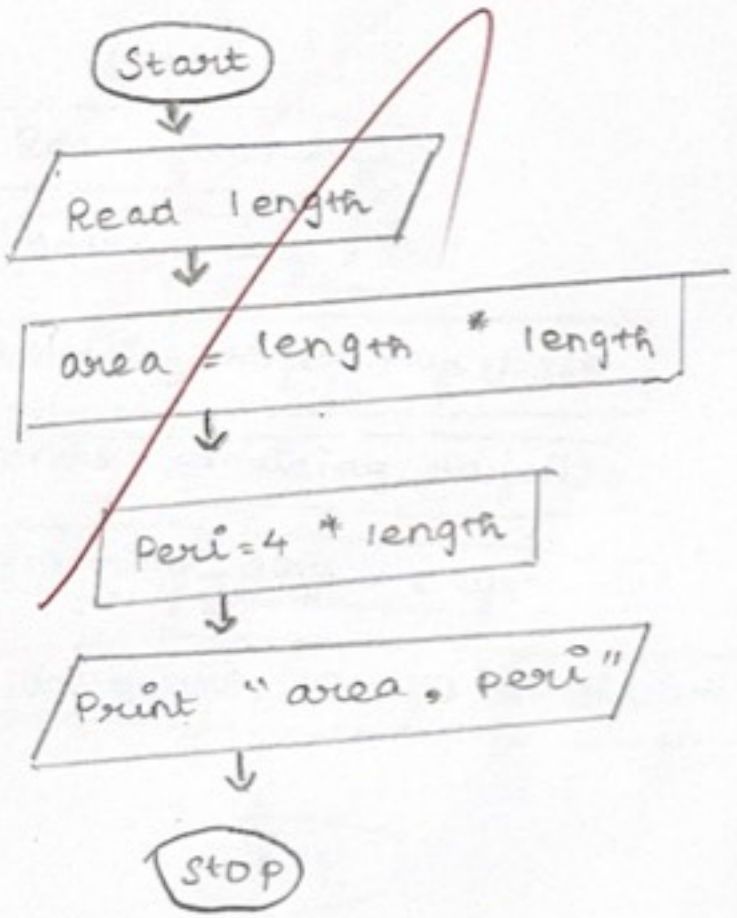
Step 3 : calculate
area = length * length

Step 4 : calculate
peri = 4 * length

Step 5 : print "area, peri"

Step 6 : End

Flowchart:



Ex. No.: 2 **Date:** 21/09/24

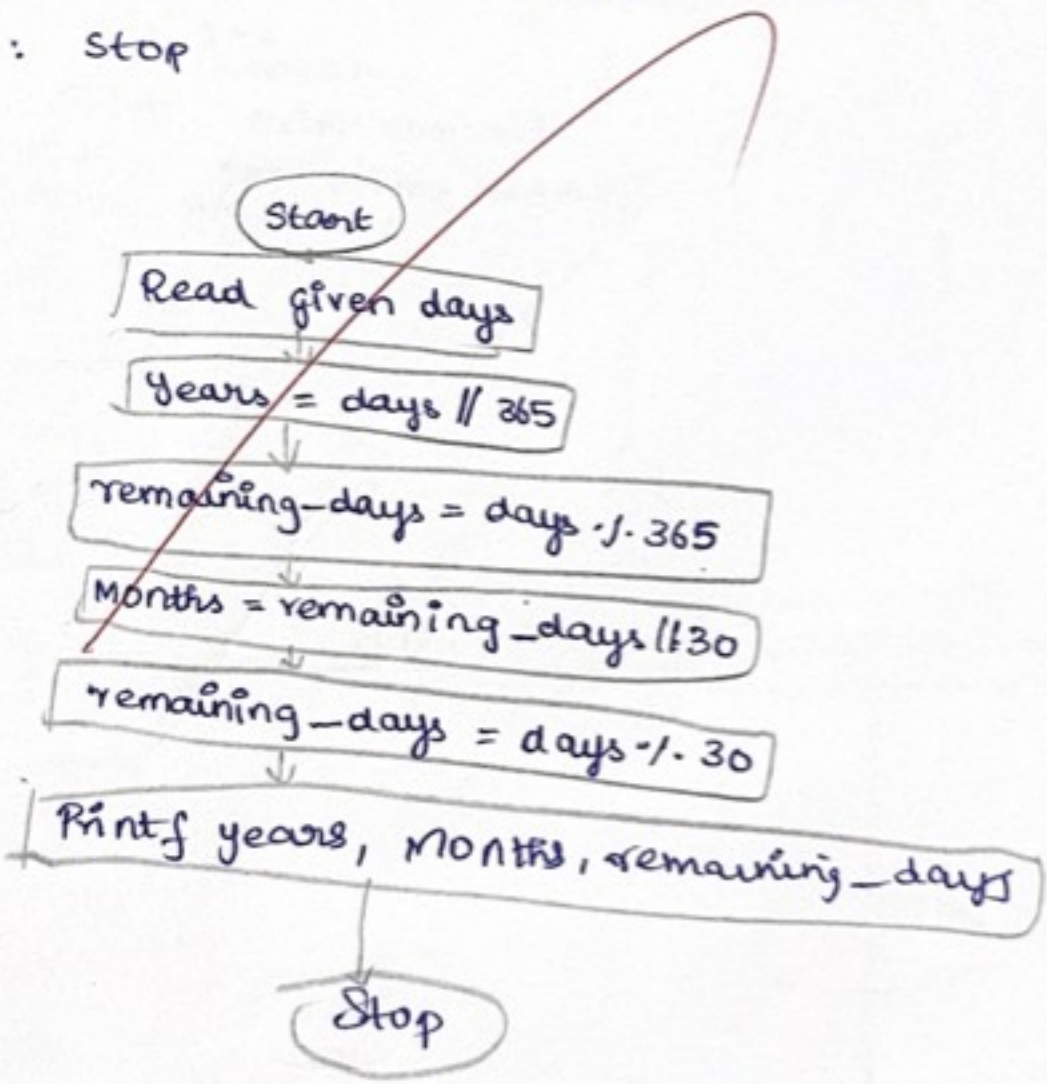
Days to Year Conversion

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

Algorithm:

Step 1 : Start
Step 2 : Read the given days
Step 3 : years = days // 365
Step 4 : remaining_days = days % 365
Step 5 : Months = remaining_days // 30
Step 6 : remaining_days = days % 30
Step 7 : Display years, months and remaining_days
Step 8 : Stop

Flowchart:



Ex. No.: 3 **Date:** 21/9/24

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 : declare i, n

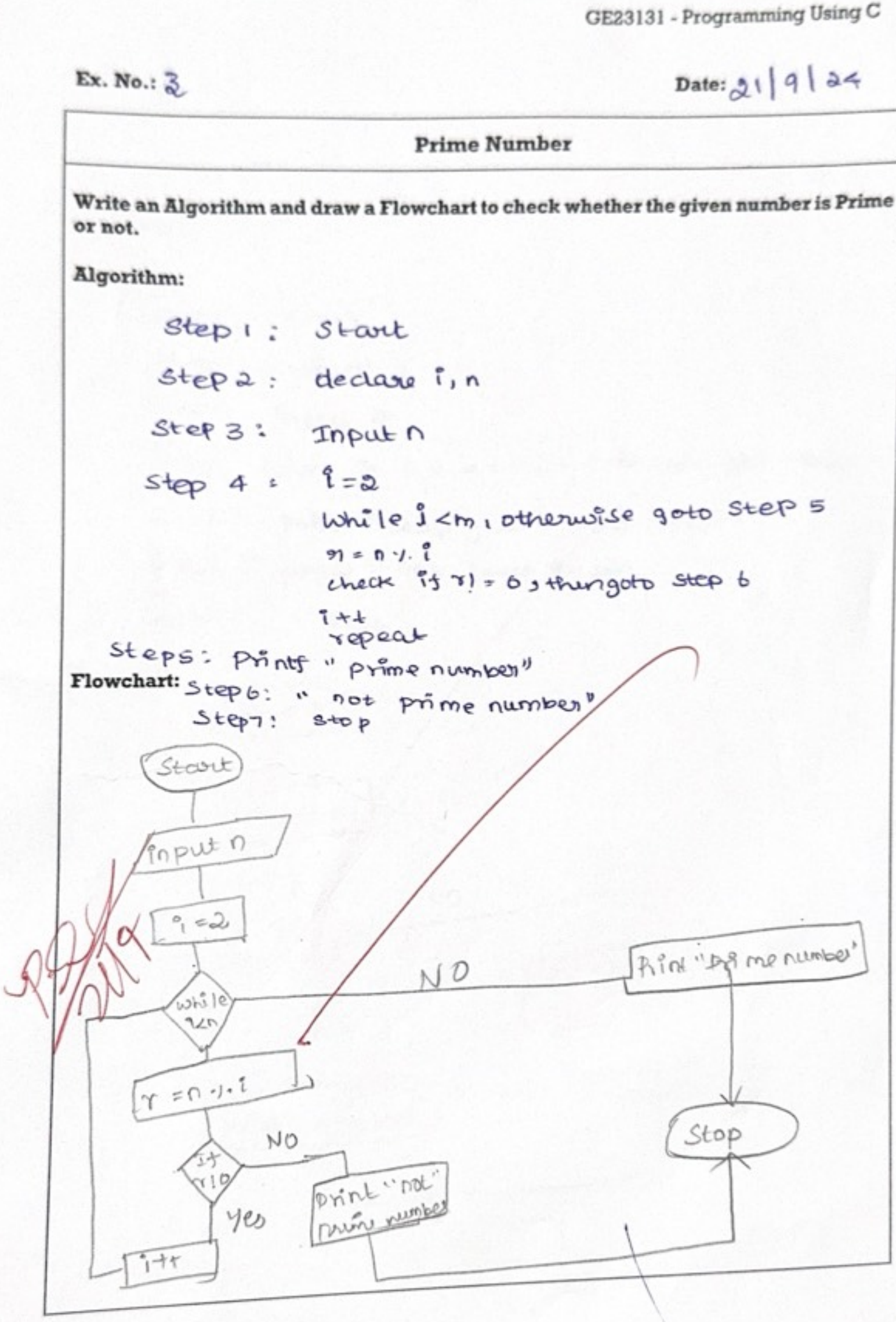
Step 3 : Input n

Step 4 : i = 2
While i < n, otherwise goto Step 5
r = n % i
check if r = 0, then goto step 6
i++
repeat

Steps: Printf " prime number"

Flowchart: Step6: " not prime number"

Step7: stop



Ex. No.: 4 **Date:** 25/9/24

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 : declare a

Step 3 : input a

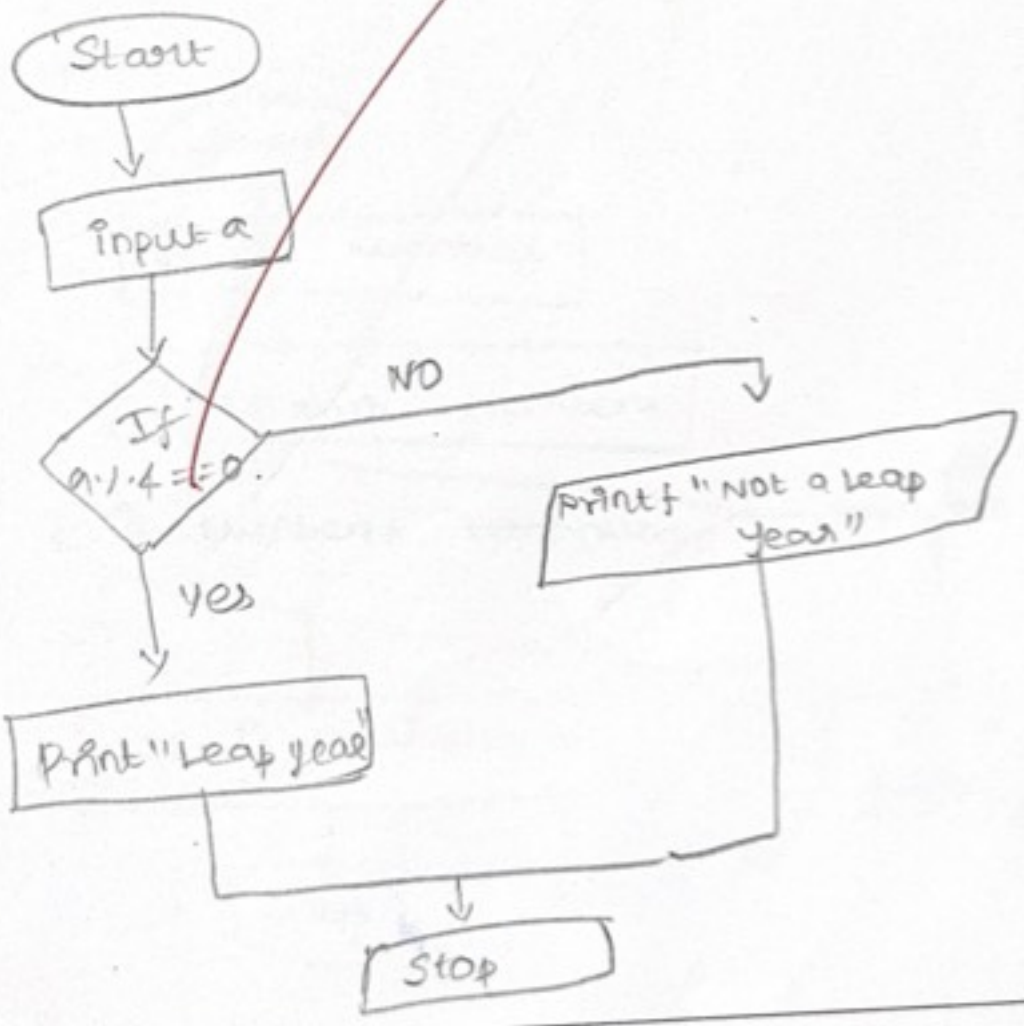
Step 4 : check if a % 4 == 0 > otherwise goto step 6

Step 5 : print "Leap year", go to step 7.

Step 6 : print "Not leap year"

Step 7 : Stop

Flowchart:



Ex. No.: 5 **Date:** 25/9/24

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: Read the number

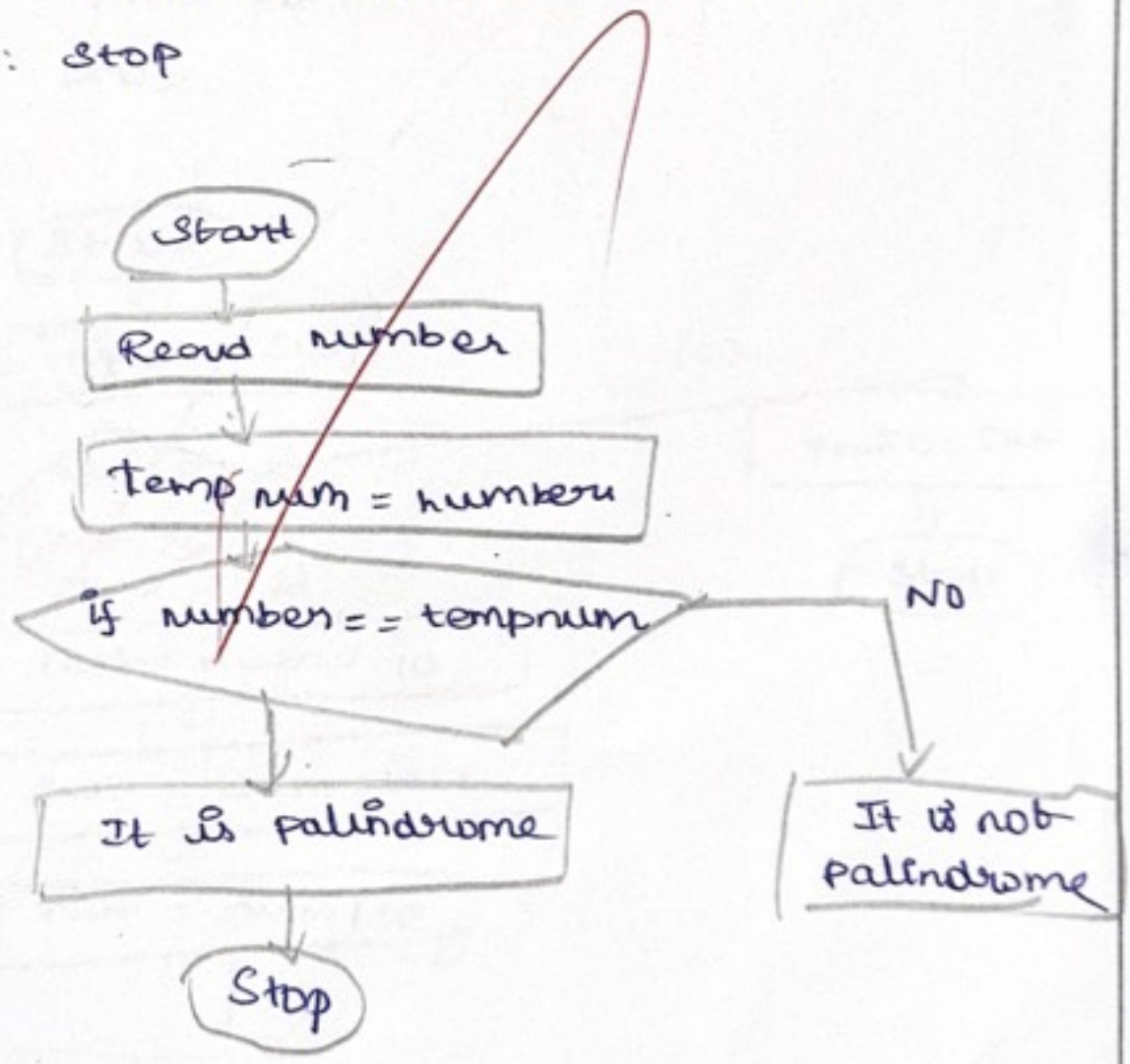
Step 3: Declare tempnum = number

Step 4: check if number = tempnum, if they is true it is a palindrome

Step 5: If not, it is not a palindrome

Step 6: Stop

Flowchart:



Ex. No.: **Date:** 25/9/24

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 : declare num, sum = = 0, last

Step 3 : input num

Step 4 : While num > 0

4a. Last = num % 10
4b = Sum = sum + last
4c : = num = num / 10
4d repeat

Step 5 : print sum

Step 6 : Stop

Flowchart: