Ex. No.: I

Date:

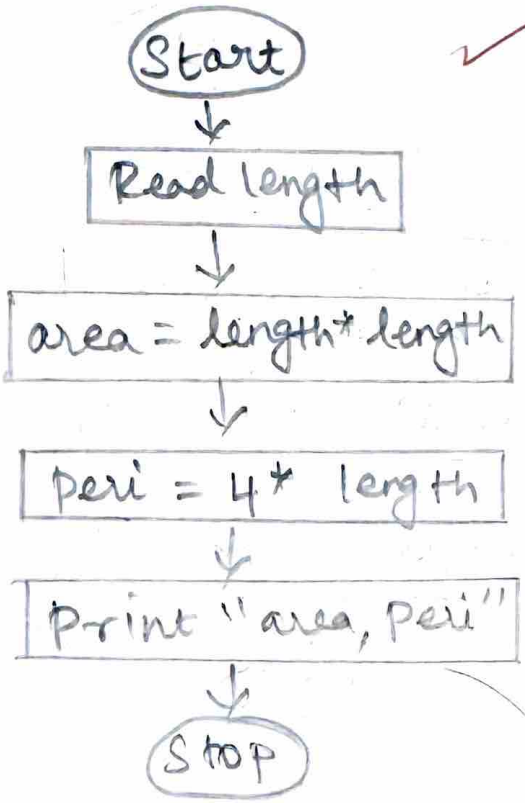
Calculate Area and Perimeter

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: Stop.

Flowchart:



Ex. No.: 11 **Date:**

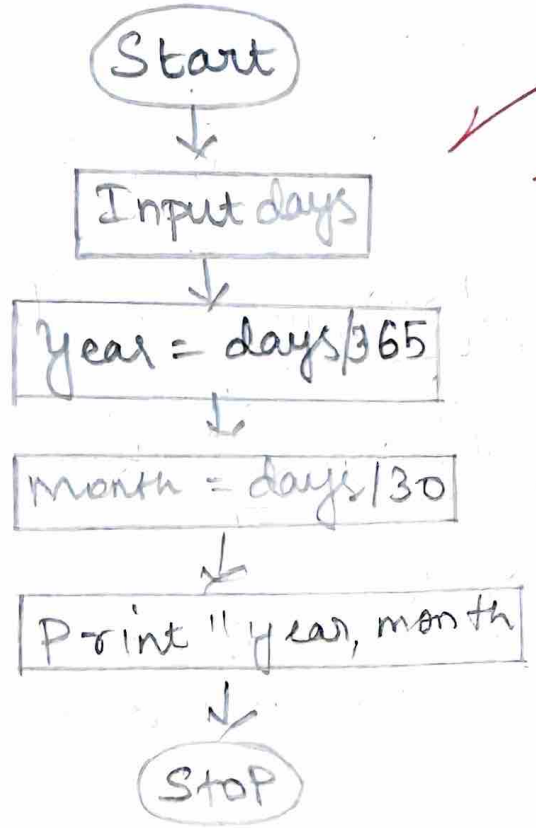
Days to Year Conversion

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

Algorithm:

Step 1 : Start
Step 2 : Get days
Step 3 : calculate year = days/365
Step 4 : calculate moth = days/30
Step 5 : print "year, moth".
Step 6 : Stop

Flowchart:



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Ex. No.: 11 **Date:**

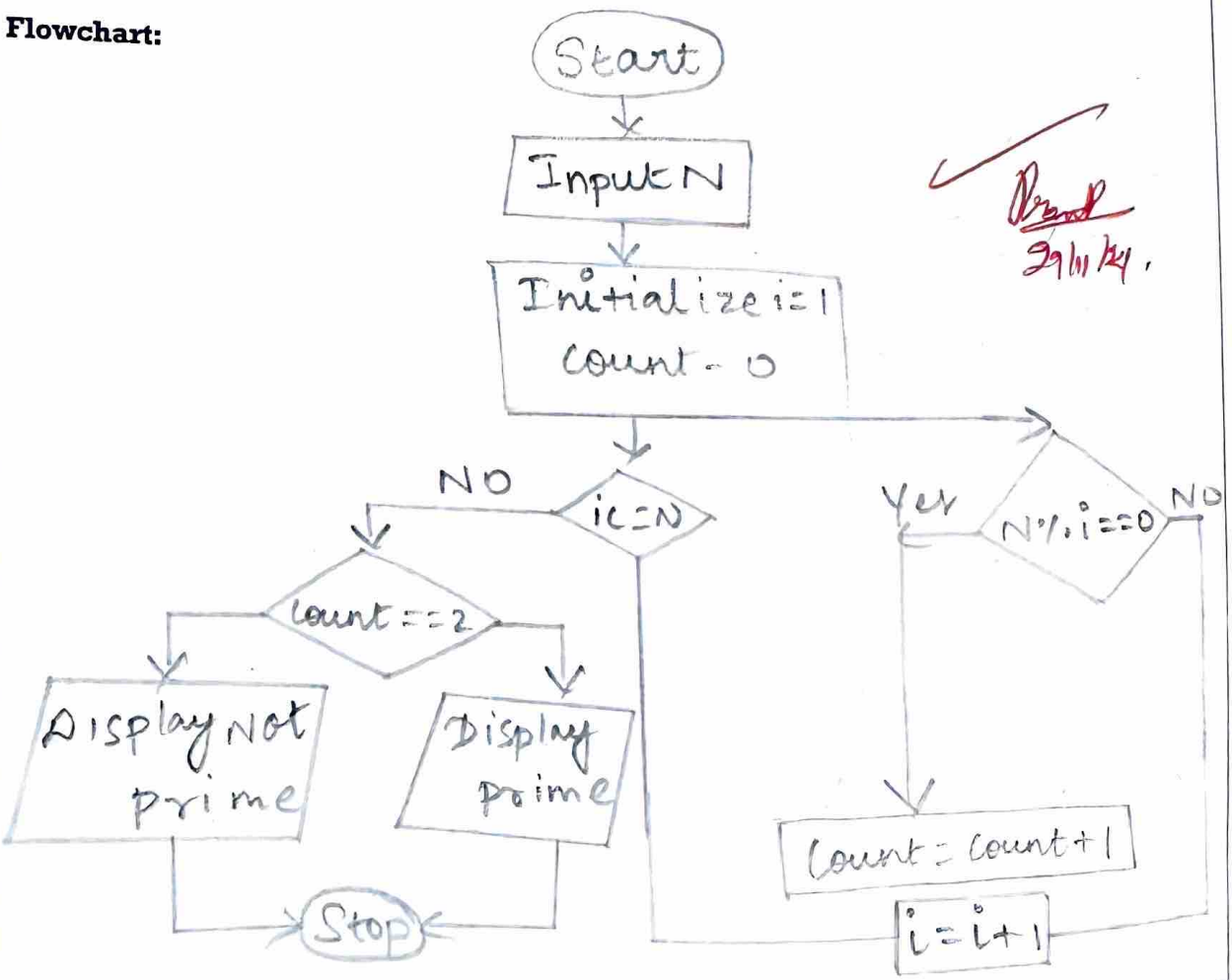
Prime Number

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

Algorithm:

Step 1: Start
Step 2: Input any natural NO. "N"
Step 3: Initialize i=1, count=0
Step 4: If i<=N then go to step5 else goto step8
Step 5: If N%. i=0, then go to step6 else gotostep7.
Step 6: count=count+1
Step 7: i=i+1 and go to step4.
Step 8: If count==2, then display "prime", else display "Not prime"
Step 9: Stop.

Flowchart:



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Ex. No.: 1N

Date:

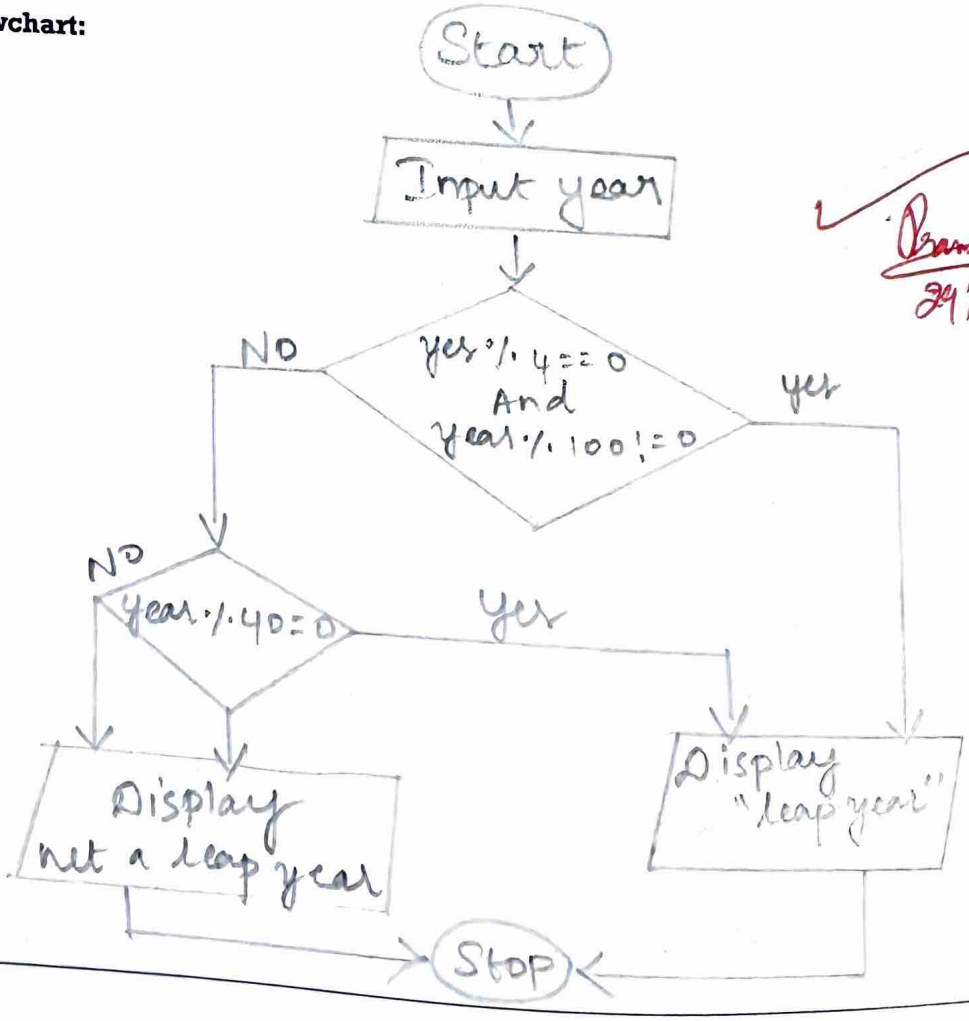
Leap Year

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 year
Step 3 : If (year %. 4 == 0 AND year %. 100 != 0) or (year %. 400 == 0) then go to step 4 else go to step 5 .
Step 4 : Display "Leap year"
Step 5 : Display "Not a leap year"
Step 6 : Stop .

Flowchart:



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Ex. No.: V **Date:**

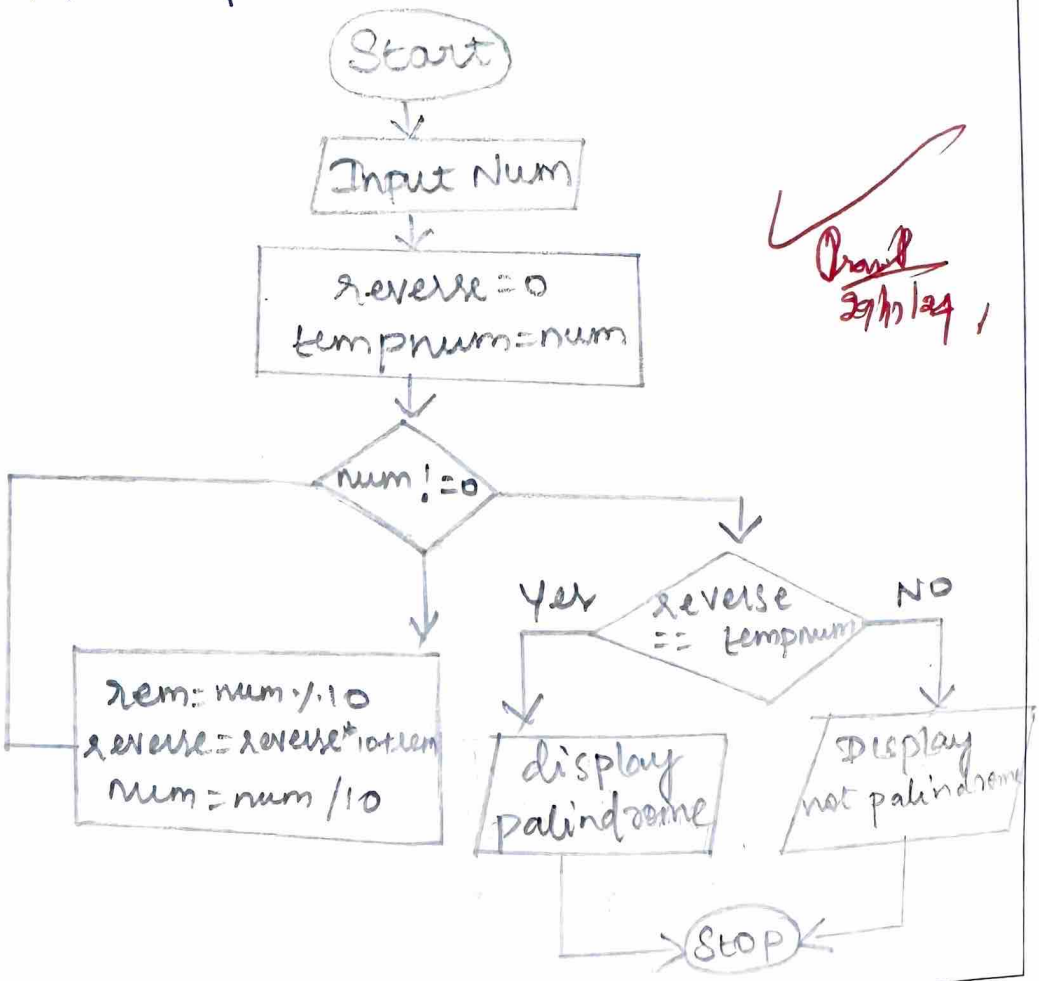
Palindrome Number

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 num
Step 3: Declare and initialize the variable
tempNum=num reverse and assign input to a temp variable
Step 4: Start the while loop until num != 0 becomes false
* rem = num % 10
* reverse = reverse * 10 + rem
* num = num / 10
Step 5: Check if reverse == tempNum
Step 6: If it is true then display "palindrome"
else display "Not a palindrome".
Step 7: Stop.

Flowchart:



Ex. No.: VI **Date:**

Sum of Digits

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

Algorithm:

Step 1: Get the Number

Step 2: Construct a variable to hold the total and initialize it to

Step 3: Repeat Step 2 & 3 until the result is not 0

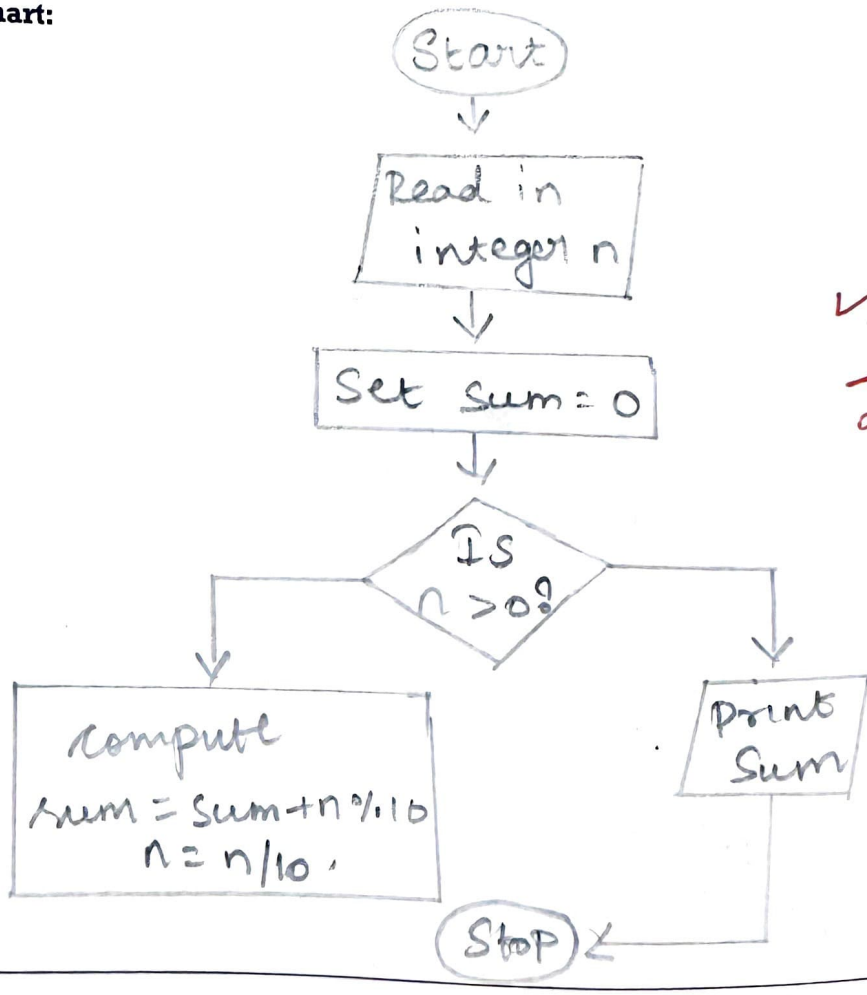
step 4: Divide the number by 10 to obtain the right most digit using the remaining "percent" operator then add to be total.

Step 5: Use the '/' operator to divide the integer by 10 to eliminate the last digit on the right

Step 6: Display the sum (total)

Step 7: Stop.

Flowchart:



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