Ex. No.: 1 **Date:** 26/9/24

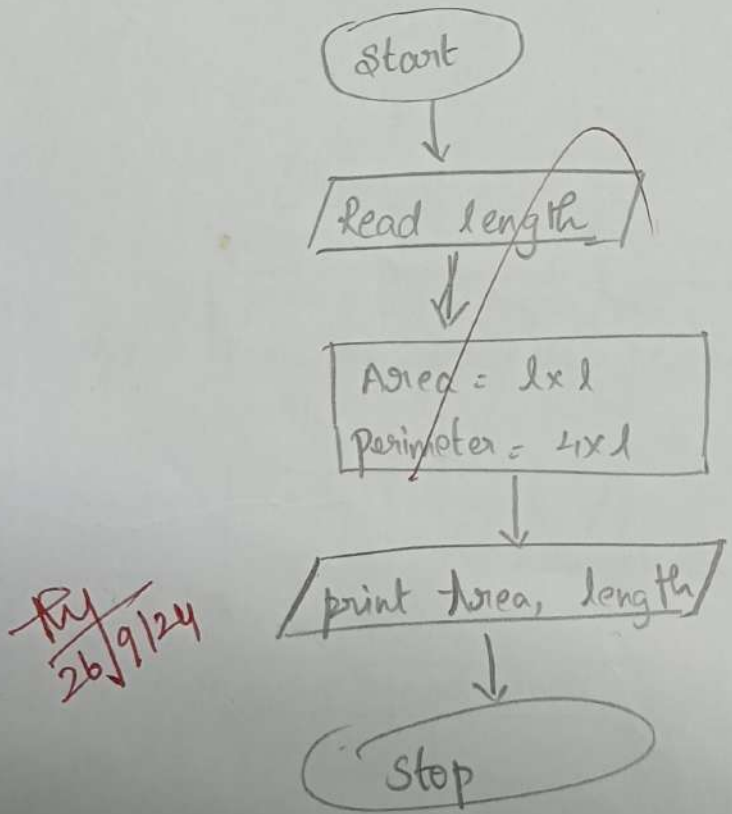
Calculate Area and Perimeter

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
A = l x ~~b~~
perimeter = 4 x l
Step 4 : print Area, perimeter
~~A = l x b~~
Step 5 : Stop

Flowchart:



RV 26/9/24

Ex. No.: 4 Date: 26/10/24

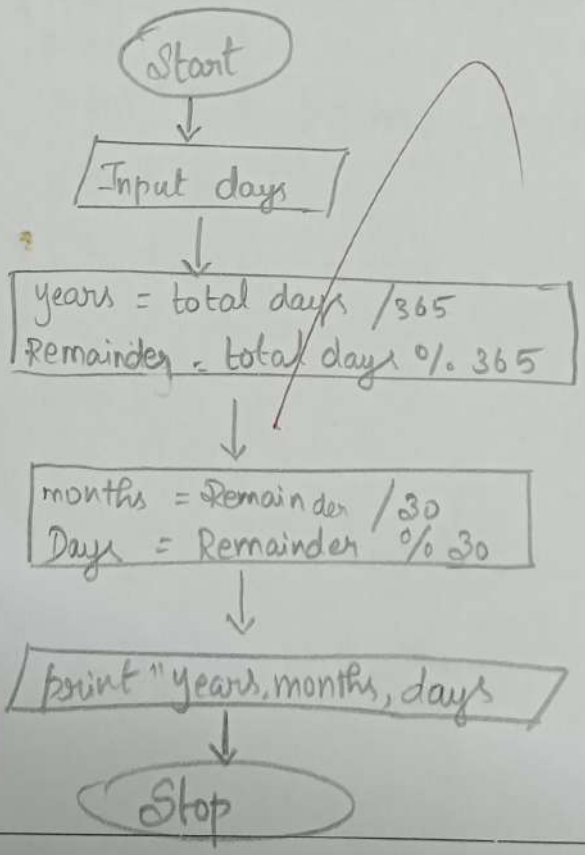
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: Input days
Step 3: Total days / 365
Step 4: Remainder = Total days % 365
Step 5: Months = Remainder / 30
Step 6: Days = Remainder % 30
Step 7: print "years, months, Days"
Step 8: Stop

Flowchart:



RJ 26/10/24

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Ex. No.: 11 **Date:** 26/10/24

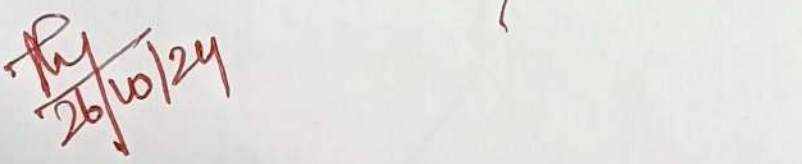
Prime Number

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

Algorithm:

Step 1: Start
Step 2: Read n
Step 3: Set f = 1
Step 4: If n == 1 then
print "n is not prime number"
go to step 8
Step 5: For i = 2 to n-1
Step 6: If n % i == 0 then
Set f = 1 & break else goto step 5.
Step 7: If f == 1 then
print "n is not prime number"
else
print "n is prime number"
Step 8: Stop

Flowchart:



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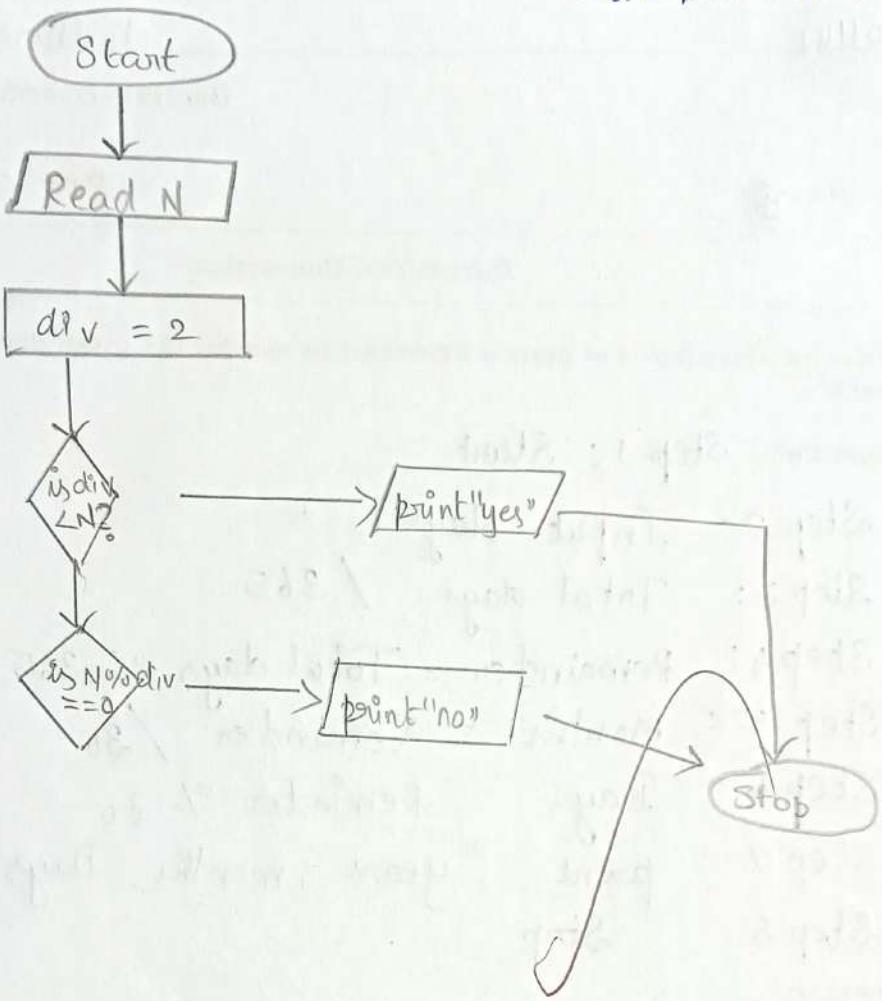


Ex. No.: 4 Date: 28/9/24

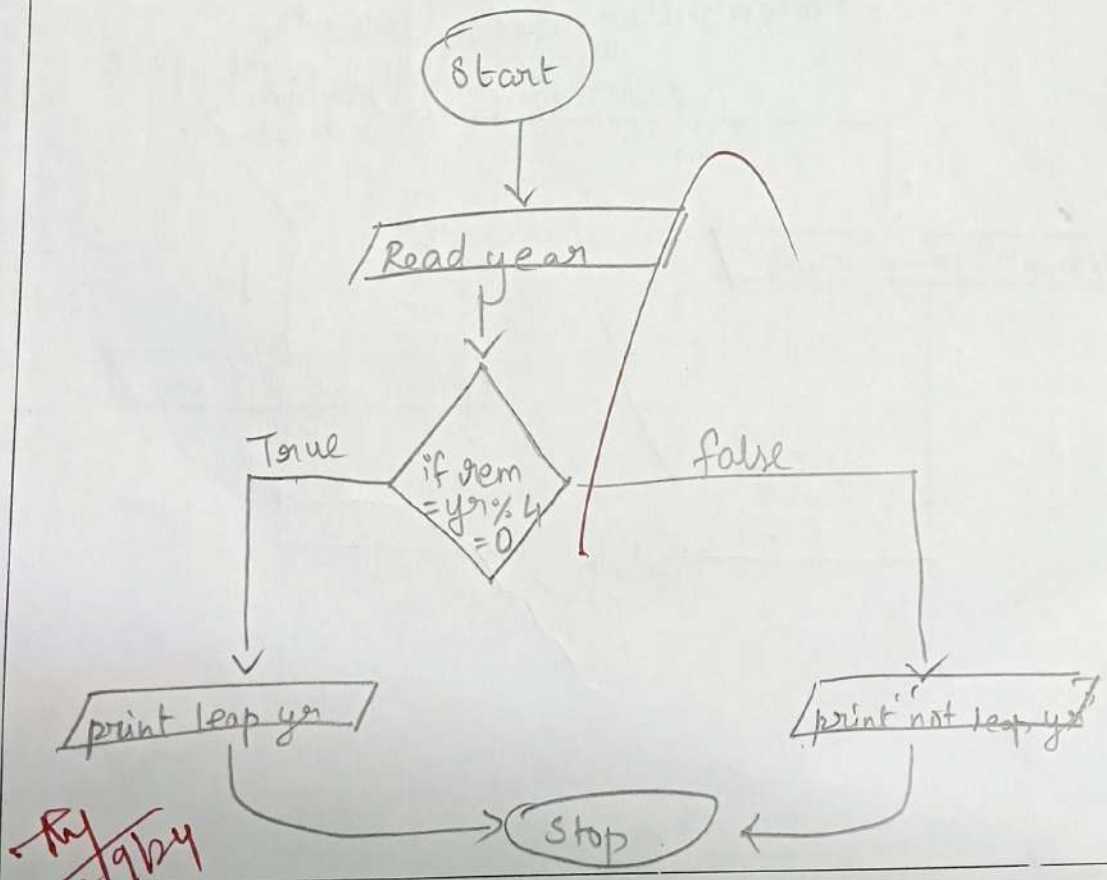
Leap Year

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

Algorithm:

Step 1 : Start
Step 2 : Read year
Step 3 : Remainder = year % 4
Step 4 : if (rem == 0) then
print "leap year"
else
print "not leap year"
Step 5 : Stop

Flowchart:



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Ex. No.: 5 Date: 28/9/24

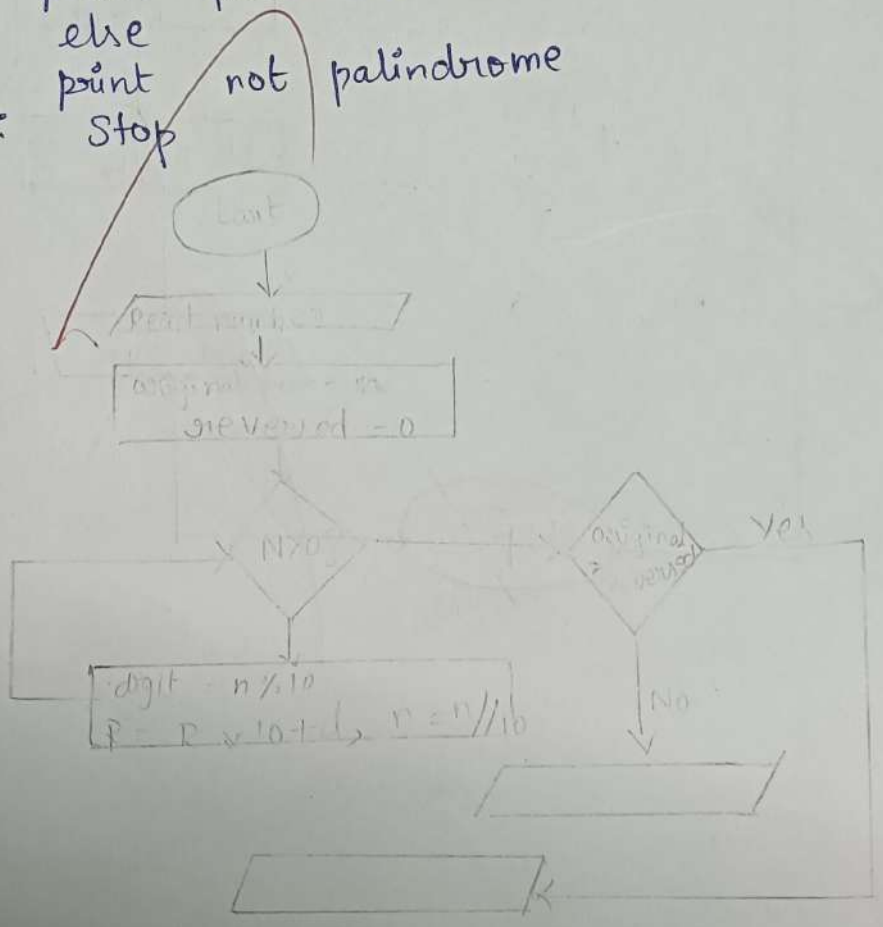
Palindrome Number

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

Algorithm:

Step 1 : Start
Step 2 : Read the number n
Step 3 : Set original = n & reversed = 0
Step 4 : while n > 0
* Set digit = n % 10
* update reversed = rev x 10 + digit
*) update n = n // 10
Step 5 : If original = reversed
print palindrome
else
print not palindrome
Step 6 : Stop

Flowchart:



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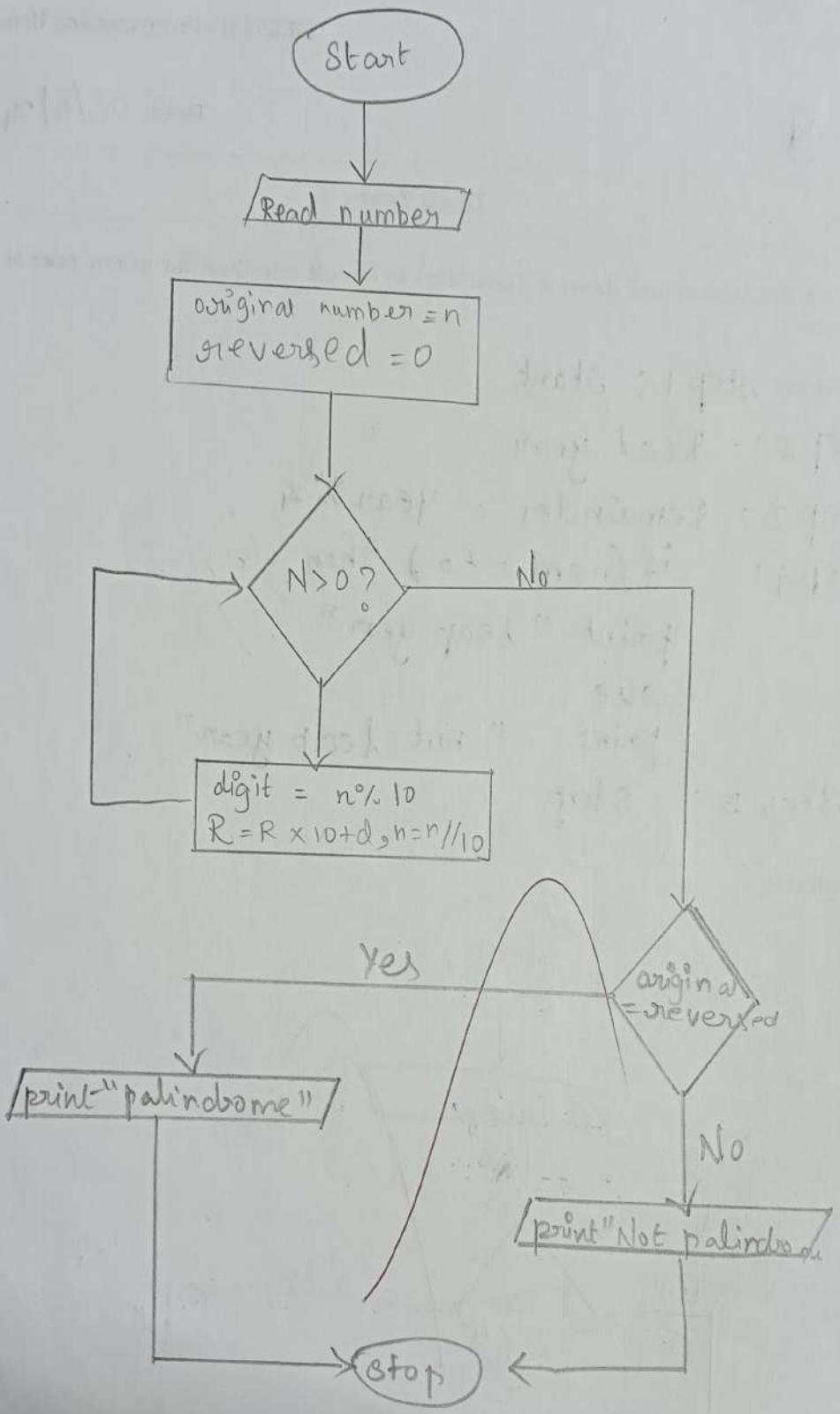

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Ex. No.: 1 Date: 28/9/24

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: Get 'n' from the user
Step 3: Initialise Sum is equal to zero
Step 4: Check n>0 true go to step 5
Step 5: Sum = Sum + (n % 10)
Step 6: n = n//10 , go to step 4
step 7: print "Sum"
Step 8: Stop

Flowchart:

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