GE23131-Programming Using C-2024

Roll No : 240801145

Name : KAMESH . J

Week 0 :

NAME : J.KAMESH
ROLL No 240801145

Ex. No.: 01 **Date:** 26/09/24

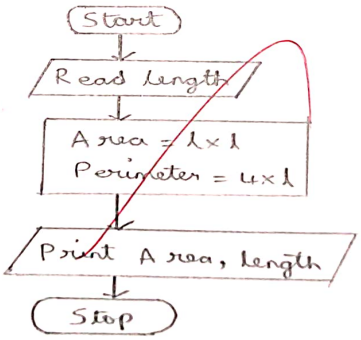
Calculate Area and Perimeter

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

Flowchart:



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Ex. No.: 02 **Date:** 26/09/24

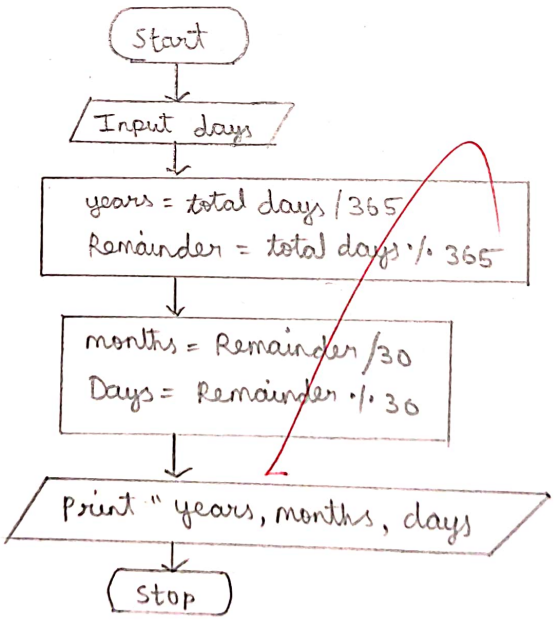
Days to Year Conversion

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

Algorithm:

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

Flowchart:



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Ex. No.: 03 **Date:** 26/09/24

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 and break else go to 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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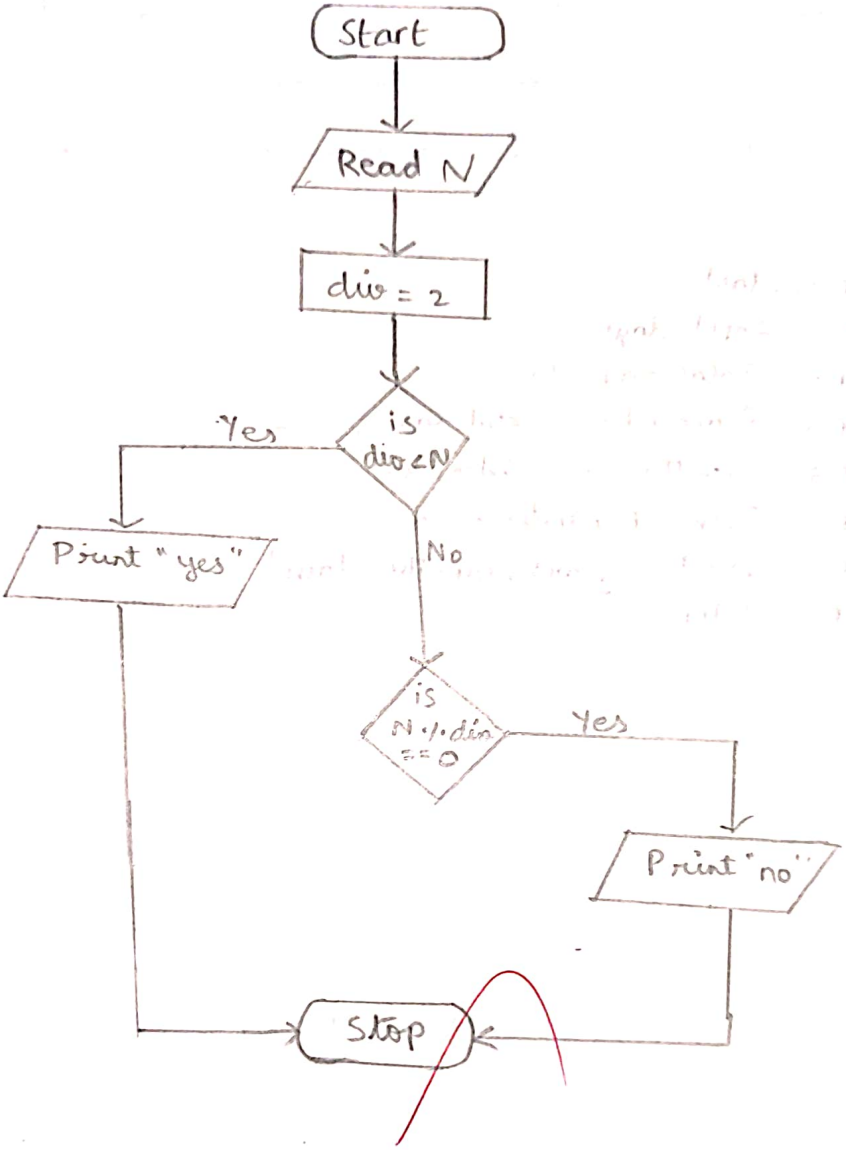

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Ex. No.: 04 **Date:** 28/9/24

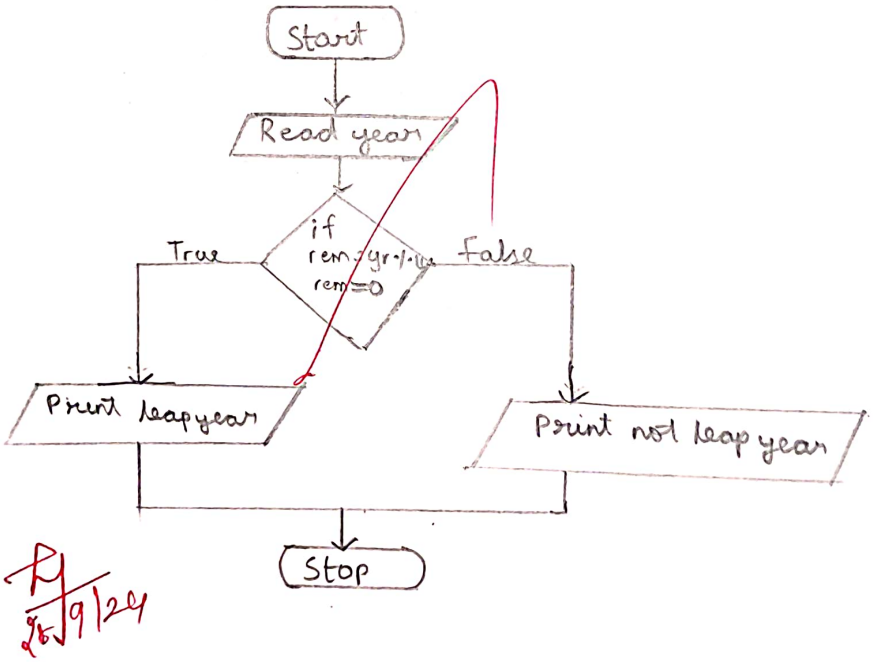
Leap Year

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 "leapyear"
else
print "not leap year"
Step 5 : Stop.

Flowchart:



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Ex. No.: 05

Date: 28/09/24

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 and reversed = 0
Step 4 : While n > 0
* Set digit = n % 10
* Update reversed = rev × 10 + digit
* update n = n / 10
Step 5 : If original = reversed
Print Palindrome
else
Print not palindrome

Flowchart:

Step 6 : Stop.

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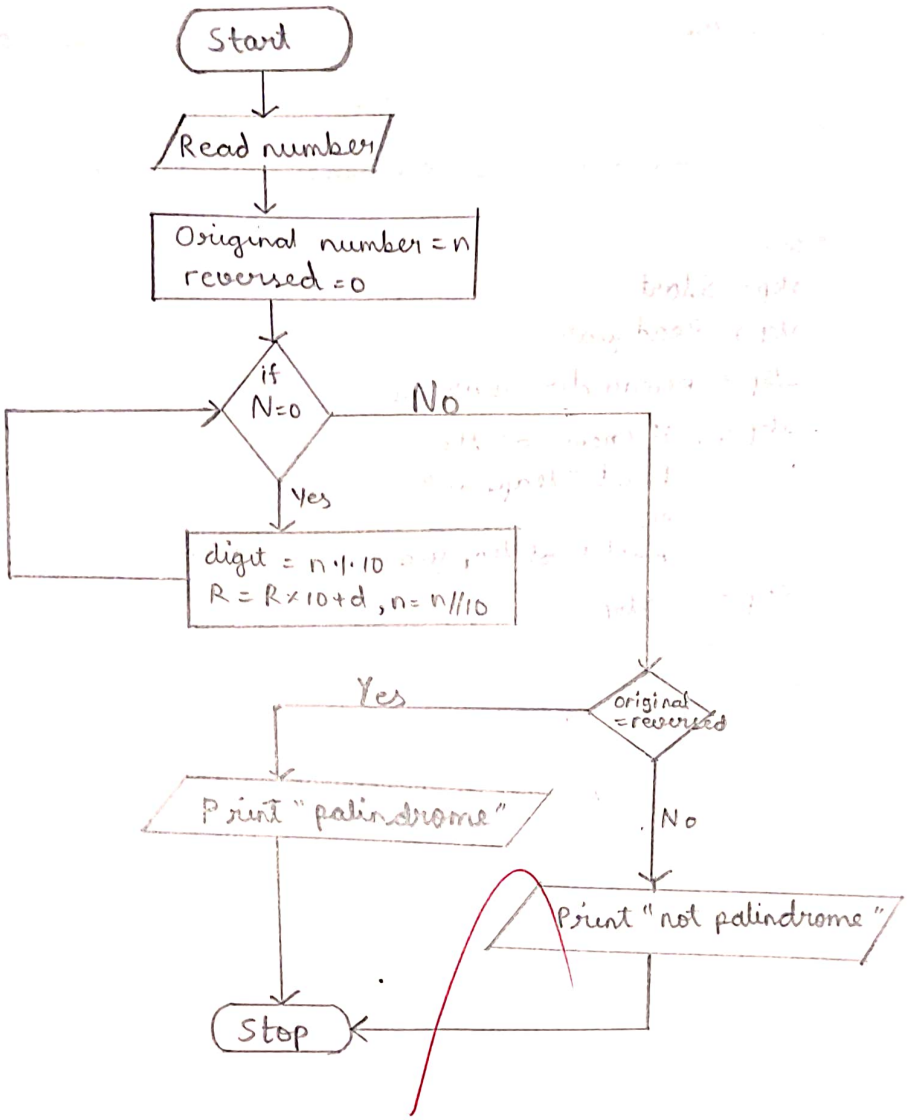

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Ex. No.: 06 **Date:** 28/09/24

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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