

240801182

Lokesh.M

GE23131 - Programming Using C

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:**

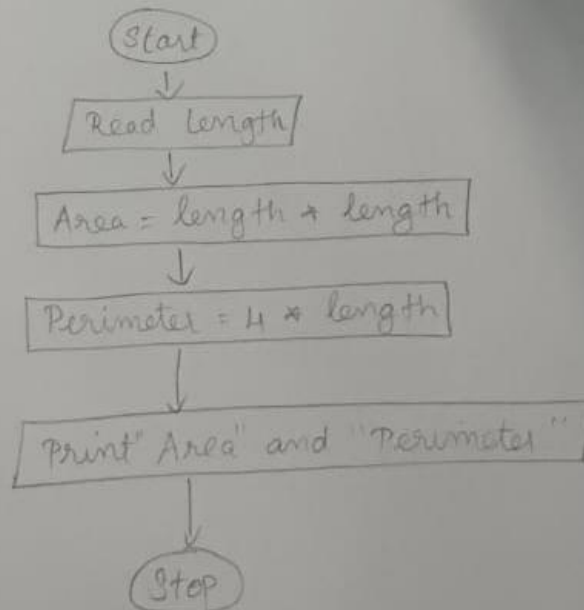
Step 1 : Start

Step 2 : Read length

Step 3 :  $\text{Area} = \text{length} * \text{length}$ Step 4 :  $\text{Perimeter} = 4 * \text{length}$ 

Step 5 : Print "Area" and "Perimeter"

Step 6 : Stop

**Flowchart:**

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Ex. No.: 2

Date: 26/9/27

## 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 days

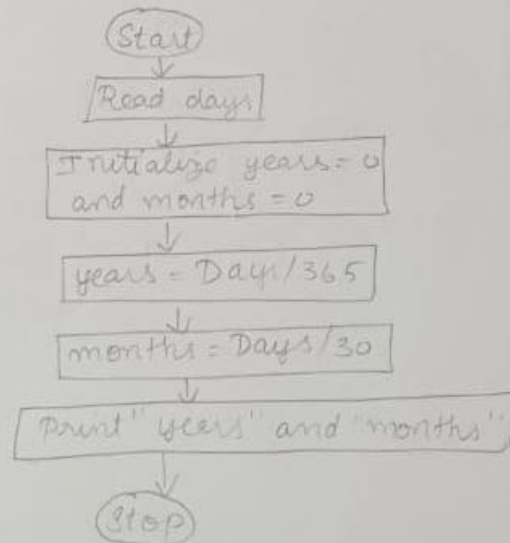
Step 3: Initialises years = 0 and months = 0

Step 4:  $\text{years} = \text{Days} / 365$ Step 5:  $\text{months} = \text{Days} / 30$ 

Step 6: Print "years" and "months"

Step 7: Stop

## 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: 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  
Flowchart: go to step 5

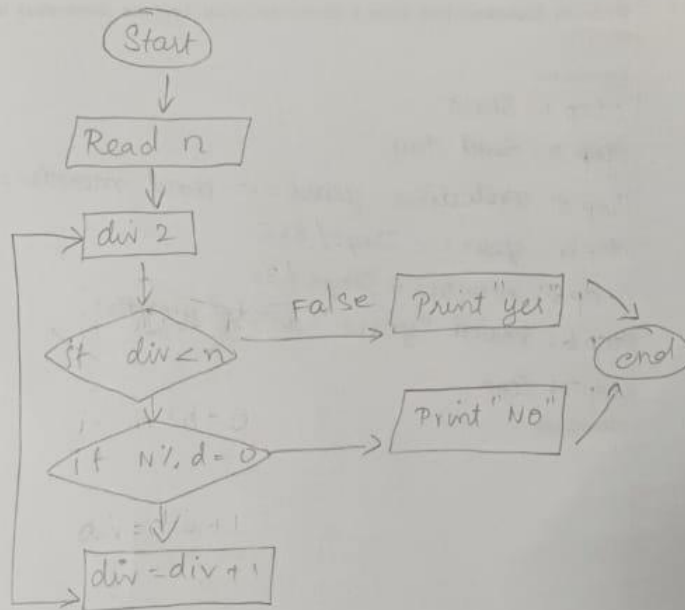
Step 7: If  $f==1$  then  
Print " $n$  is not prime number"  
else  
Print " $n$  is prime number"

Step 8: Stop

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Flowchart



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Ex. No.: 4

Date: 28/9/24

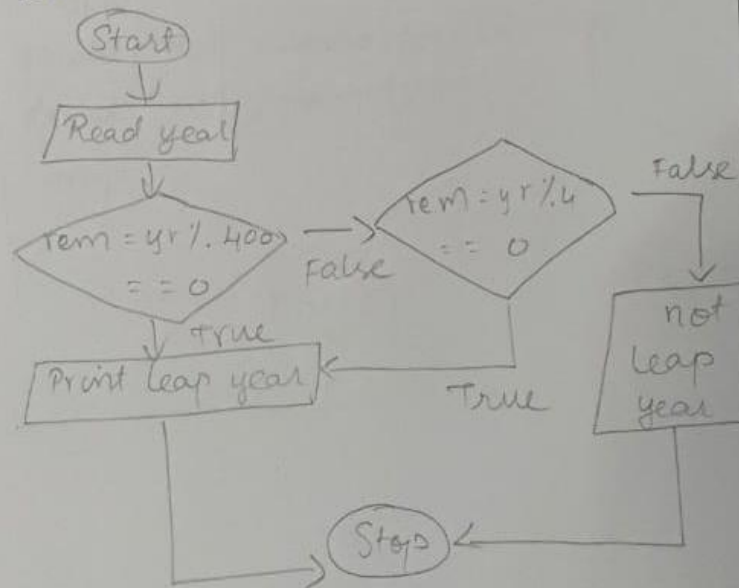
## Leap Year

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: Check  $\text{year} \% 4 = 0$ . If it is true go to step 4 otherwise go to step 5  
Step 4: Print "leap year"  
Step 5: Print "not leap year"  
Step 6: End

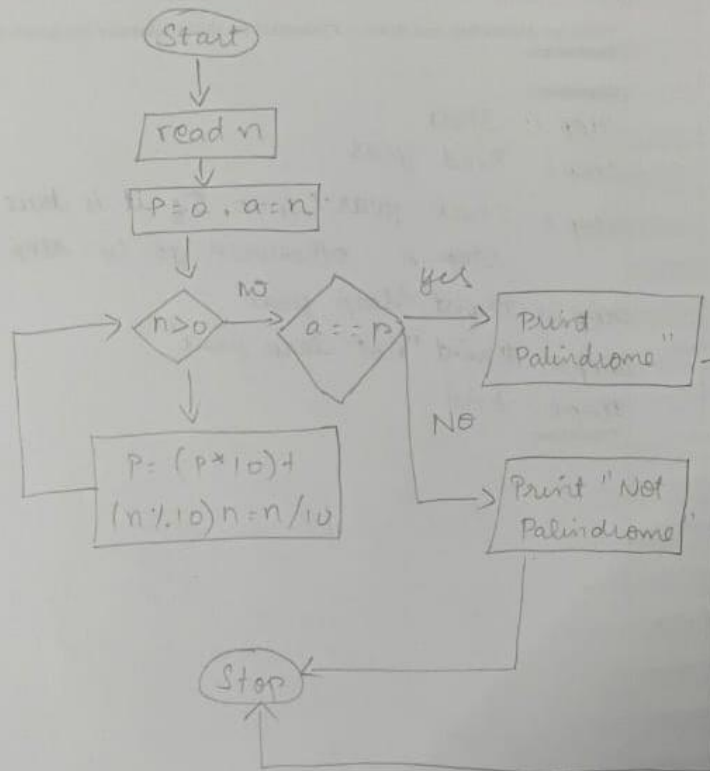
## Flowchart:



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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  $n$  from userStep 3: Step  $p = 0$ ,  $a = n$ Step 4: Check wheather  $n > 0$ , go to step 5 else go to step 7.Step 5:  $P = (P * 10) + (n \% P)$ Step 6:  $n = n / 10$ , go to step 4Step 7: Check wheather  $a == P$ , true go to step 8 else go to step 9.

## Flowchart:

Step 8: Print "Palindrome" go to step 10

Step 9: Print "not Palindrome"

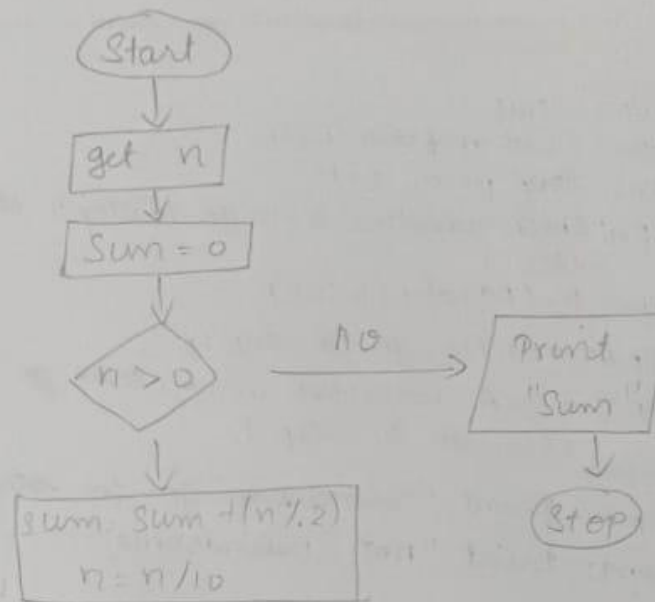
Step 10: Stop



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Flowchart





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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: Get 'n' from the user
- Step 3: Initialize sum is equal to zero
- Step 4: check  $n > 0$  true go to step 5 else go to step 6
- Step 5:  $Sum = Sum + (n \% 10)$
- Step 6:  $n = n / 10$  go to step 4

Flowchart:

- Step 7: Print "sum"
- Step 8: Stop

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Flowchart

