# Algorithm & Flowchart

**Ex. No.:** 1 **Date:** 18/10/2024

## Calculate Area and Perimeter

**Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.**

**Algorithm:**

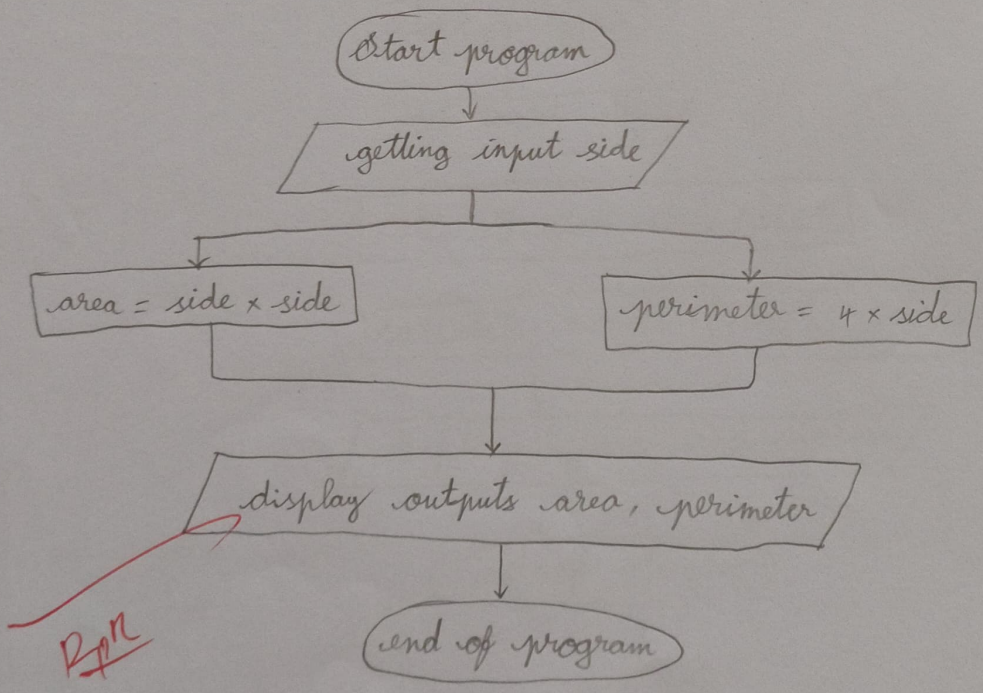
Step-1 => get input value "side"

Step-2 => calculate area = side * side

Step-3 => calculate perimeter = 4 * side

Step-4 => display the outputs - area and perimeter.

**Flowchart:**




RPR

Sample output :- side : 2
area : 4
perimeter : 8

**Ex. No.:** 2 **Date:** 18/10/2024

## Days to Year Conversion

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

**Algorithm:**

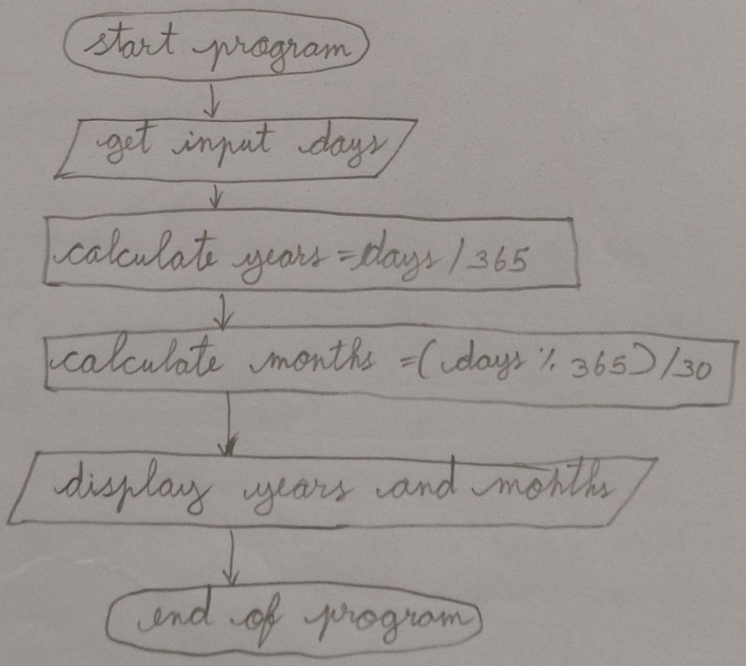
Step - 1 => get the no. of days as input value

Step - 2 => calculate no. of years = days / 365

Step - 3 => calculate no. of months = (days % 365) / 30

Step - 4 => display the no. of years and no. of months as outputs.

**Flowchart:**

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Sample output : days : 365
years : 1
months : 0

**Ex. No.:** 3 **Date:** 18/10/2024

## Prime Number

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

**Algorithm:**

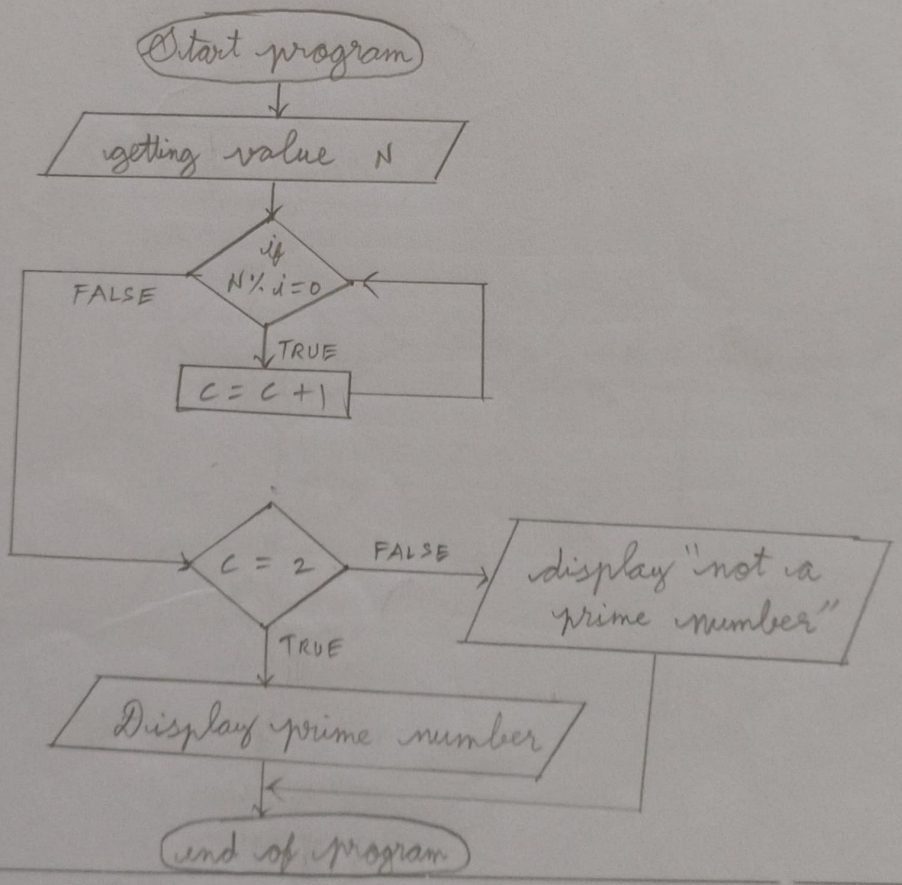
Step-1 ⇒ getting input value for "N"

Step-2 ⇒ start loop from 1 to N, loop variable is C

Step-3 ⇒ check N % C = 0, C = C+1

Step-4 ⇒ If C=2, display it is a prime number,
if not, display it is not a prime number.

**Flowchart:**

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Ex. No.: 4

## Leap Year

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

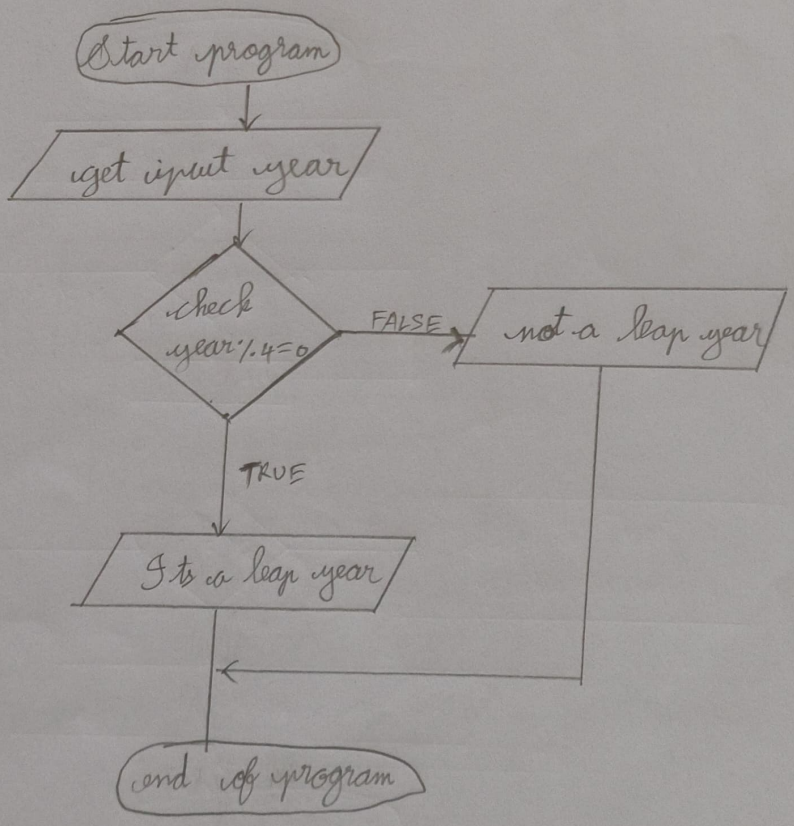
**Algorithm:**

Step-1 => get input as year

Step-2 => check whether year % 4 = 0

Step-3 => If its true, display it as leap year,
if its false, diplay it as not a leap year

**Flowchart:**

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**Ex. No.:** 5 **Date:** 18/10/2024

## Palindrome Number

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

**Algorithm:**

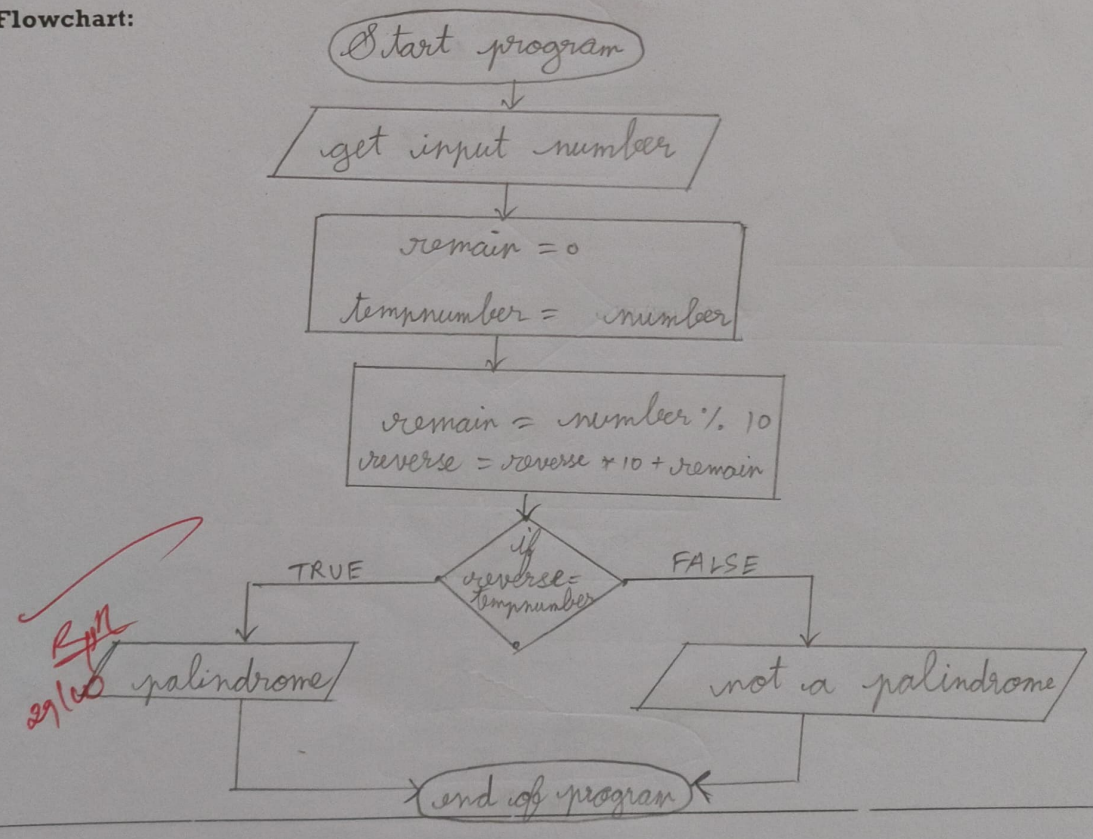
Step-1 ⇒ get the input value for number

Step-2 ⇒ remainder = number % 10

reversenumber = reversenumber * 10 + remainder

Step-3 ⇒ if number = reversenumber, then display it as palindrome, if not, it is not a palindrome.

**Flowchart:**

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**Ex. No.:** 6 **Date:** 18/10/2024

## Sum of Digits

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

**Algorithm:**

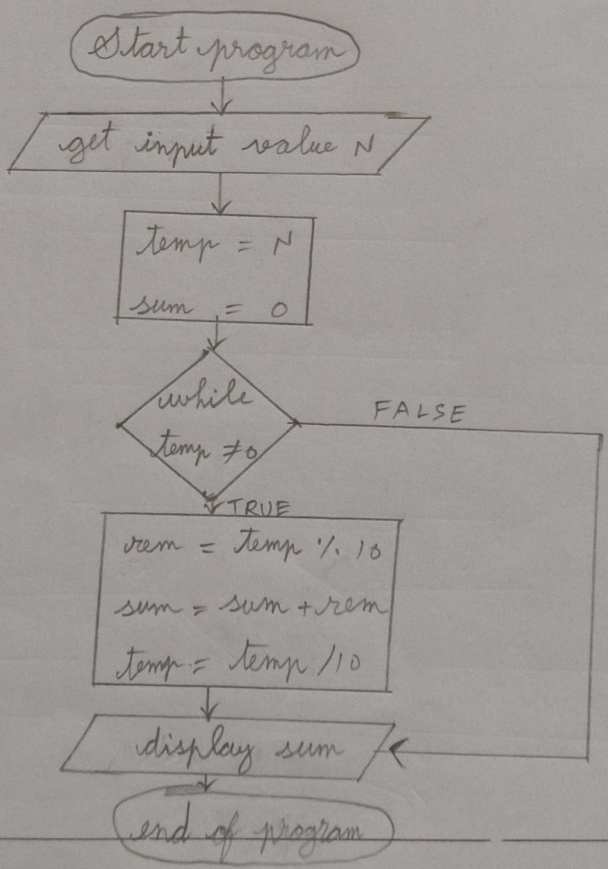
Step-1 ⇒ get input value "N"

Step-2 ⇒ assign temp = N, remain = temp % 10, sum = 0

Step-3 ⇒ initiate the loop and sum = sum + remain, temp =

Step-4 ⇒ when loop ends, display sum

**Flowchart:**

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