Ex. No.: 1 **Date:** 27-9-2024

Calculate Area and Perimeter

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

Algorithm:

Step 1 : Start

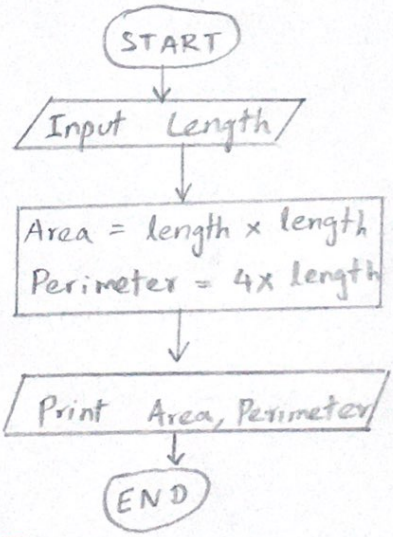
Step 2 : Get input of side of the square in variable a

Step 3 : area = axa , print the area

Step 4 : perimeter = 4a , print the perimeter

Step 5 : Stop

Flowchart:



Ex. No.: 2 **Date:**

Days to Year Conversion

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

Algorithm:

Step 1: Start

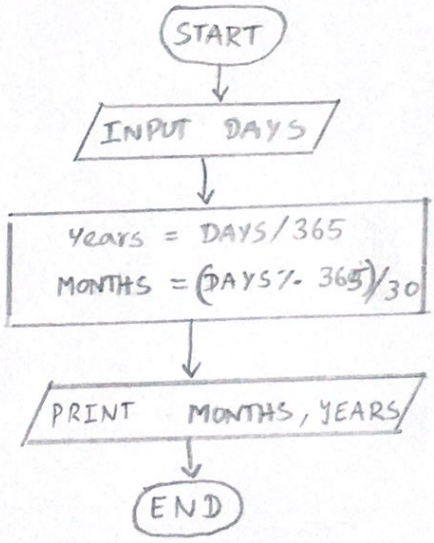
Step 2: Take days as input

Step 3: For no of years, divide input by 365 and obtain quotient.

Step 4: For no of months, divide the input by 365, obtain reminder then divide reminder by 30.

Step 5: Stop

Flowchart:



RPR

Ex. No.: 3 **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 : Take a input as n

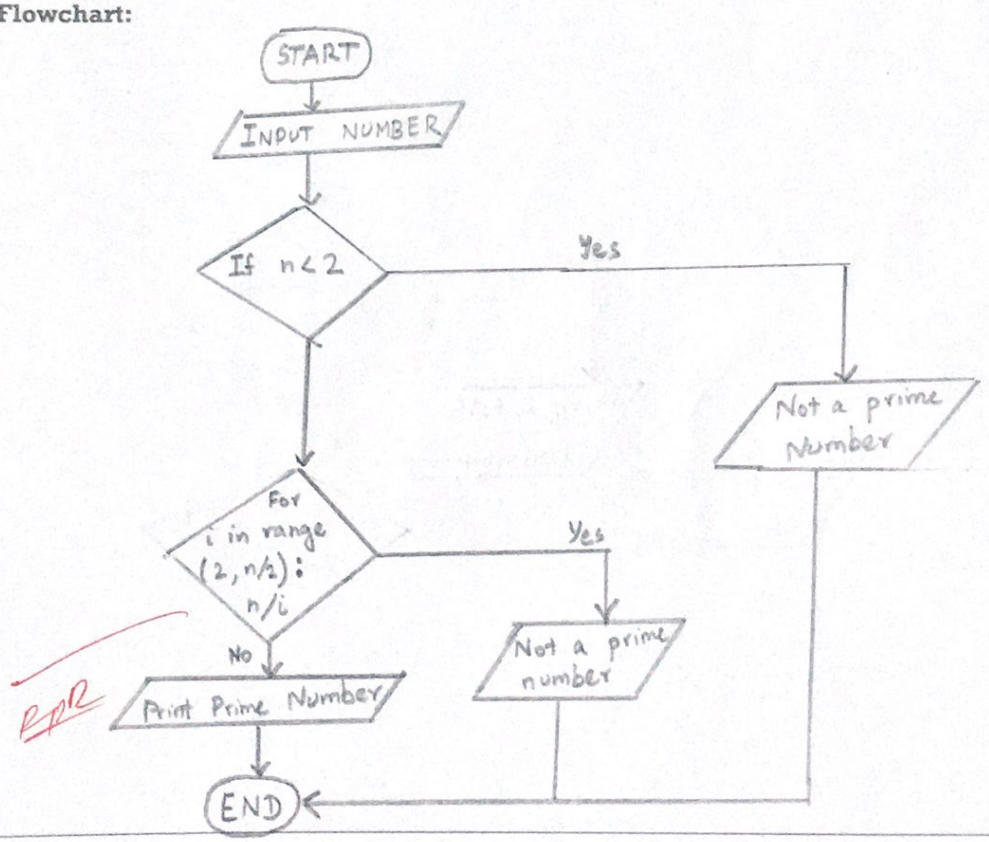
Step 3 : Check if number is less than 2, then print not a prime number.

Step 4 : Run a loop from 2 to n/2

Step 5 : If n is divisible by any number in this range it is not prime number, if no divisor found it's a prime number.

Step 6 : Stop

Flowchart:



Ex. No.: 4 **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

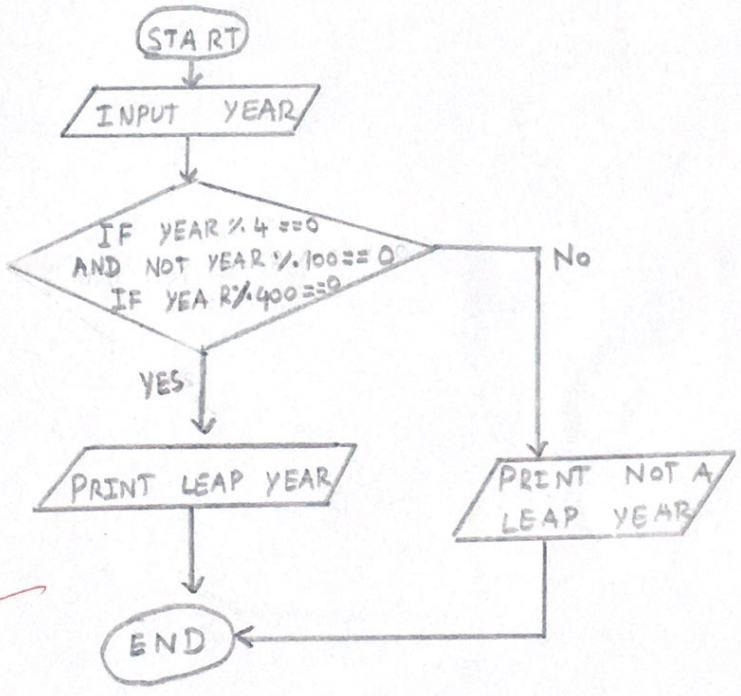
Step 2 : Get year as input

Step 3 : If year is divisible by four but not 100, print leap year

Step 4 : If year is not disible by 400, print leap year.

Step 5 : Stop

Flowchart:



Ex. No.: 5 **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 : Get number as input

Step 3 : Hold the number in temporary variable

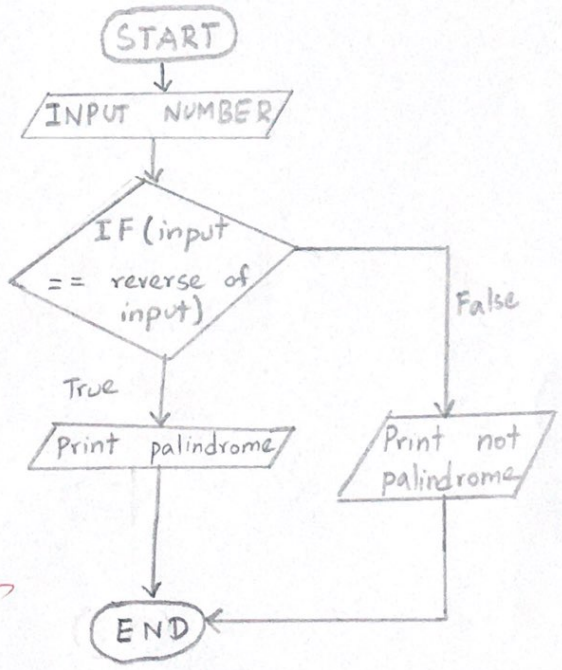
Step 4 : Reverse the number

Step 5 : Compare the temporary number with reversed number

Step 6 : If both numbers are same, print palindrome

Step 7 : Stop

Flowchart:



Ex. No.: 6 **Date:**

Sum of Digits

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

Algorithm:

Step 1: Start

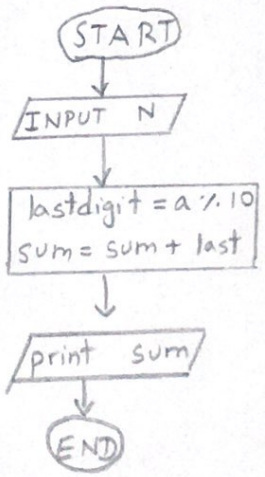
Step 2: Get an input a

Step 3: lastdigit = a % 10 , sum = sum + lastdigit

Step 4: print sum

Step 5 : Stop

Flowchart:



Rpl