Ex. No.: 01 **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 01 : Read the value of a.

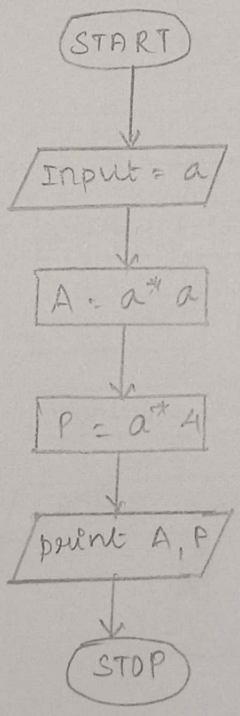
STEP 02 : Calculate the area (Area = a*a)

STEP 03 : print Area

STEP 04 : Calculate the perimeter (Perimeter = a*4)

STEP 05 : print Perimeter

Flowchart:



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Ex. No.: 02 **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 01 : Read the value for total days.

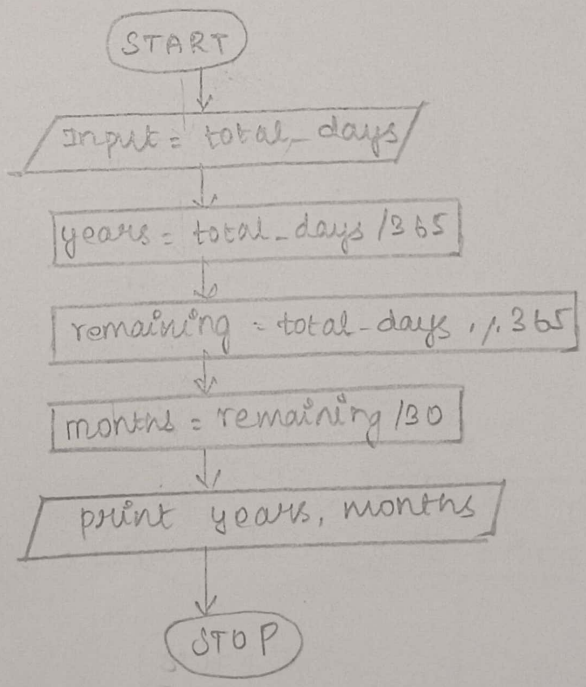
STEP 02 : Years = total days / 365

STEP 03 : Remaining_days = total days %. 365

STEP 04 : months = remaining_days / 30

STEP 05 : Display years, months.

Flowchart:



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Ex. No.: 03 **Date:** 18/10/2024

Prime Number

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

Algorithm:

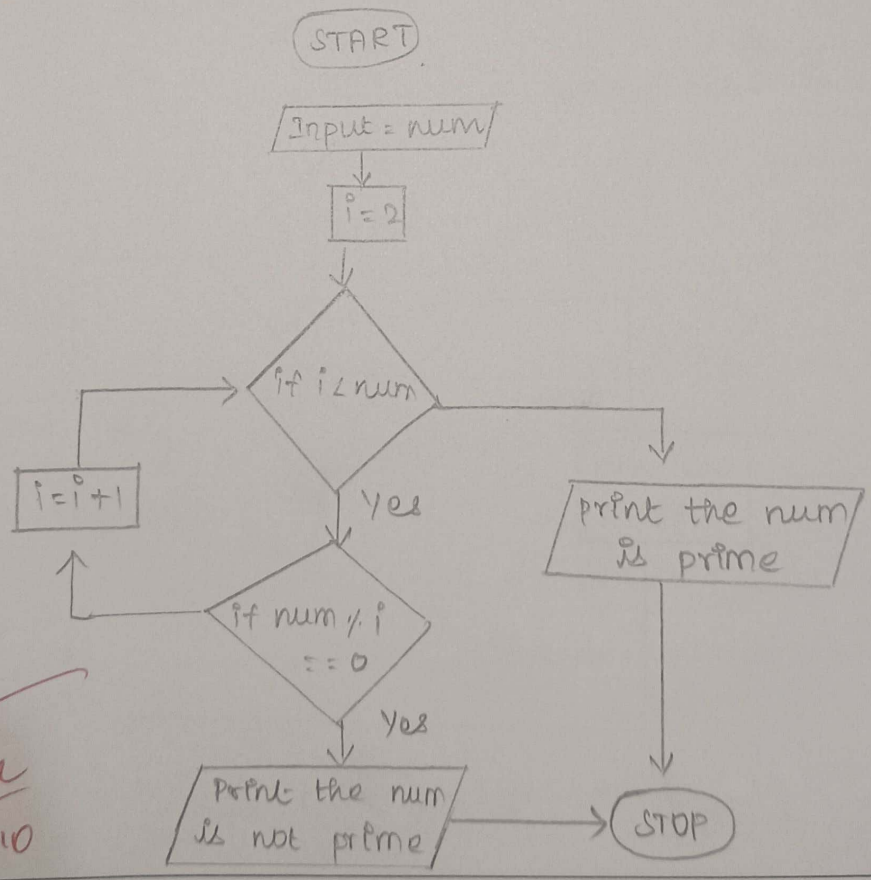
STEP 01 : Read the value of num

STEP 02 : Divide the value of num by numbers, from 2 to num-1 by iterating for loop.

STEP 03 : If num is divisible by loop iterator, then increment x. If numx=0, print num is a prime number.

STEP 04 : Else, print num is not a prime number.

Flowchart:



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Ex. No.: 04 **Date:** 18/10/2024

Leap Year

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

Algorithm:

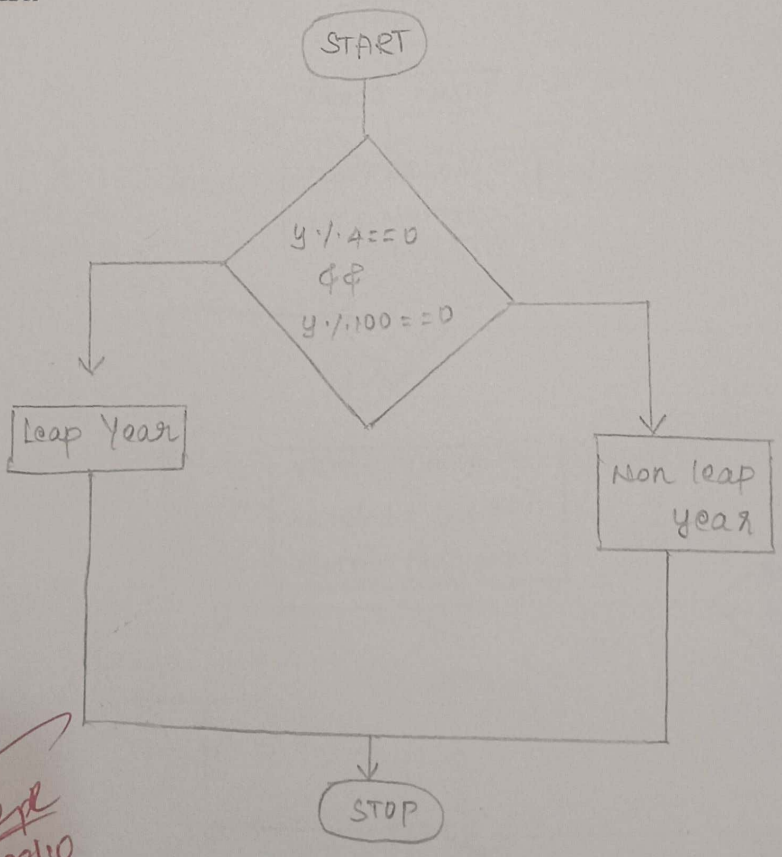
STEP 01 : Read the value of year

STEP 02 : Divide the year by 4.

STEP 03 : If the reminder is 0, print Leap Year

STEP 04 : Else, print Not a Leap Year.

Flowchart:



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Ex. No.: 05 **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 01 : Read the input number from the user.

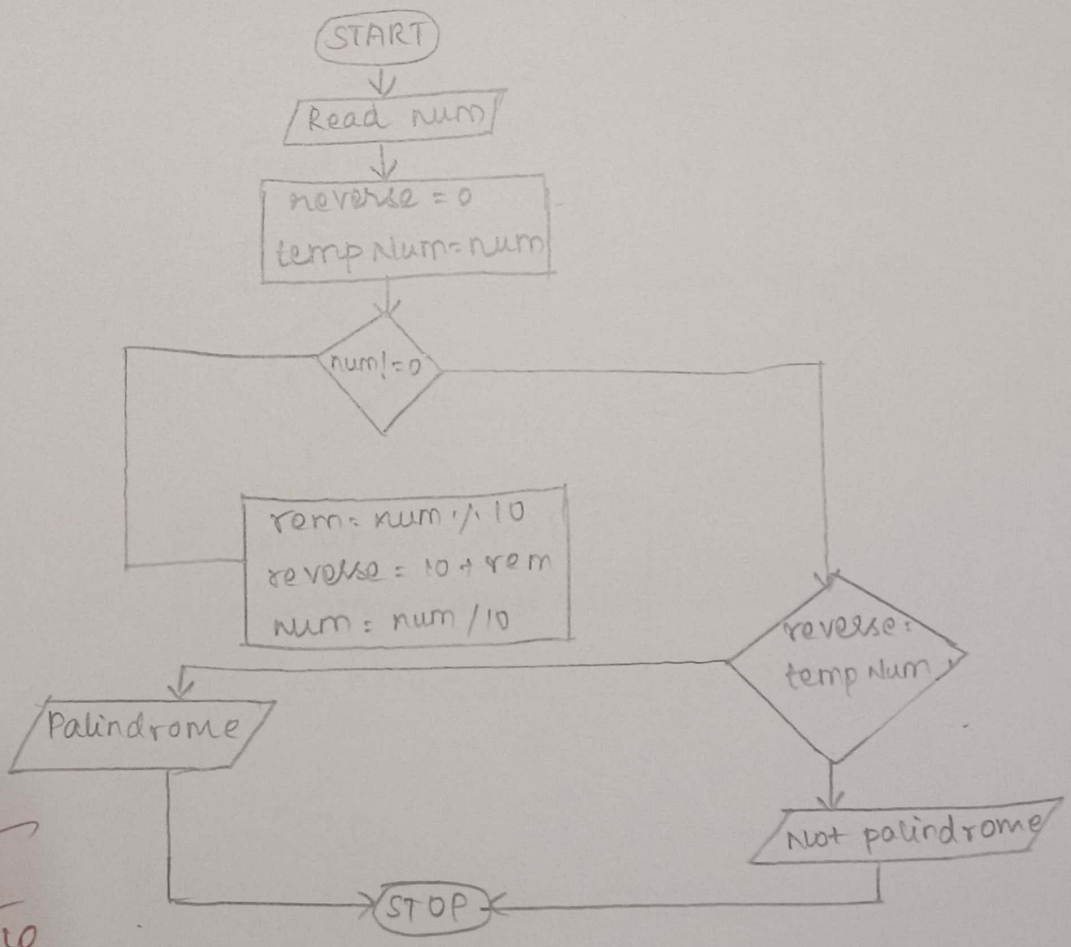
STEP 02 : Declare and initialise the variable reverse and assign input to a temp variable tempNum = num

STEP 03 : Start the while loop until num != 0 becomes false

STEP 04 : Check if reverse == tempNum

STEP 05 : If its true, then the number is a palindrome.
If not, the number is not a palindrome.

Flowchart:



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Ex. No.: 06 **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 01 : Get number by user.

STEP 02 : Get the modulus / remainder of the number

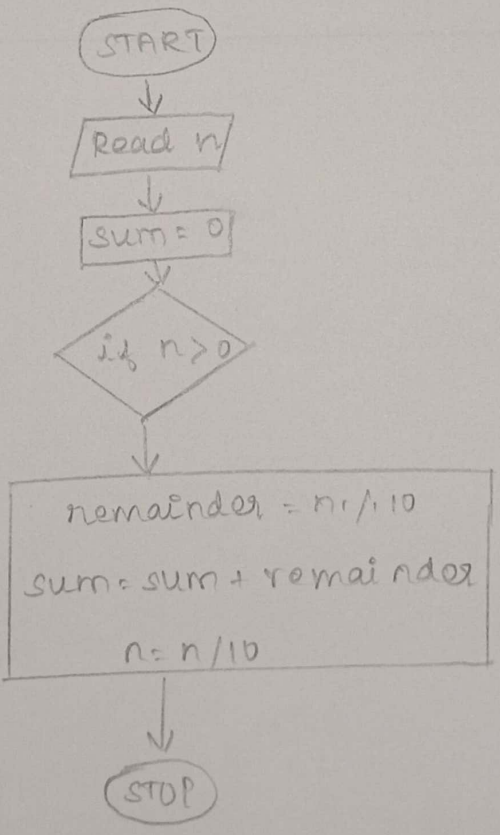
STEP 03 : Sum the reminder of the number

STEP 04 : Divide the number by 10

STEP 05 : Repeat the step 2 while the number is greater than 0.

STEP 06 : Display the output.

Flowchart:



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