

Ex. No.: 01

Date: 18/10/2024

Calculate Area and Perimeter

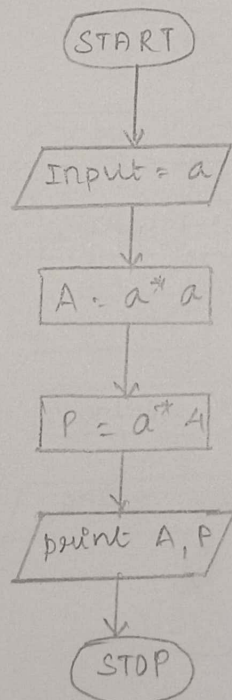
Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:STEP 01: Read the value of a .STEP 02: Calculate the area ($\text{Area} = a * a$)

STEP 03: print Area

STEP 04: Calculate the perimeter ($\text{Perimeter} = a * 4$)

STEP 05: print Perimeter

Flowchart:

RPR
28/10

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:

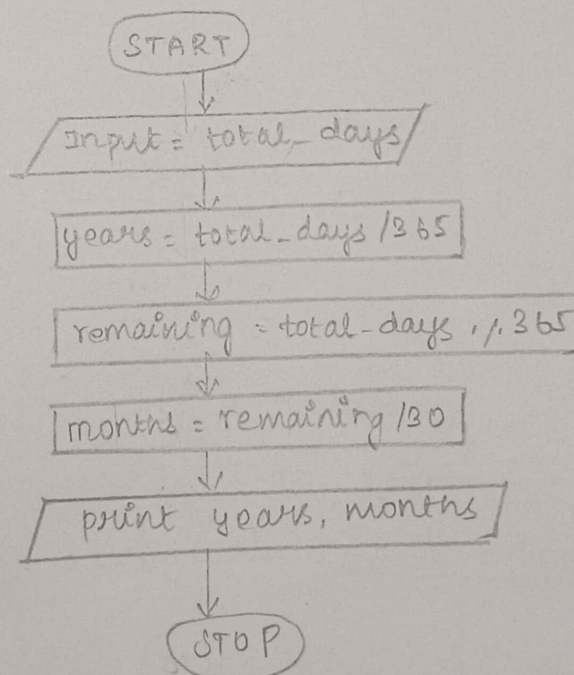
STEP 01: Read the value for total days.

STEP 02: $\text{Years} = \text{total days} / 365$

STEP 03: $\text{Remaining - days} = \text{total days} \% 365$

STEP 04: $\text{months} = \text{remaining - days} / 30$

STEP 05: Display years, months.

Flowchart:

27/12
28/10

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.

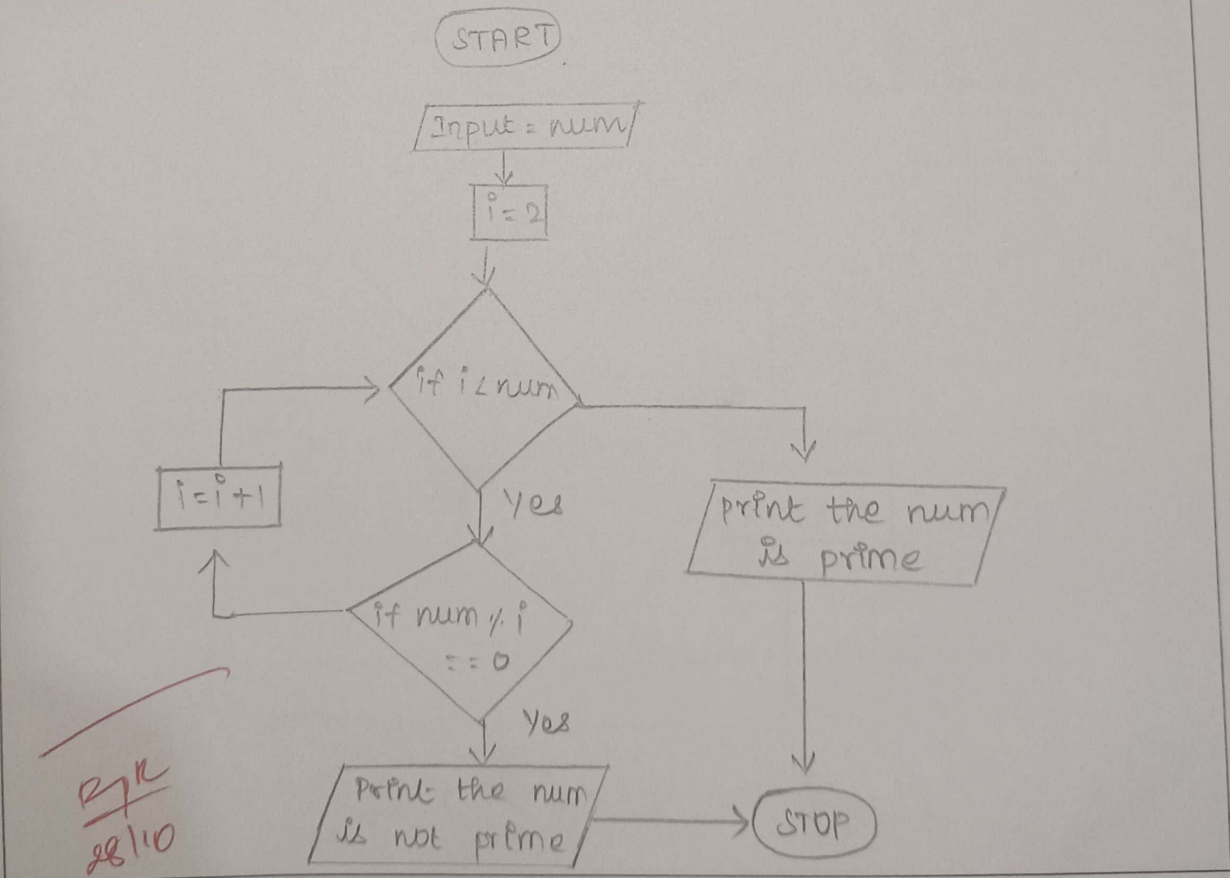
Algorithm:

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 $\text{num} \% 0$, print num is a prime number.

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

Flowchart:

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.

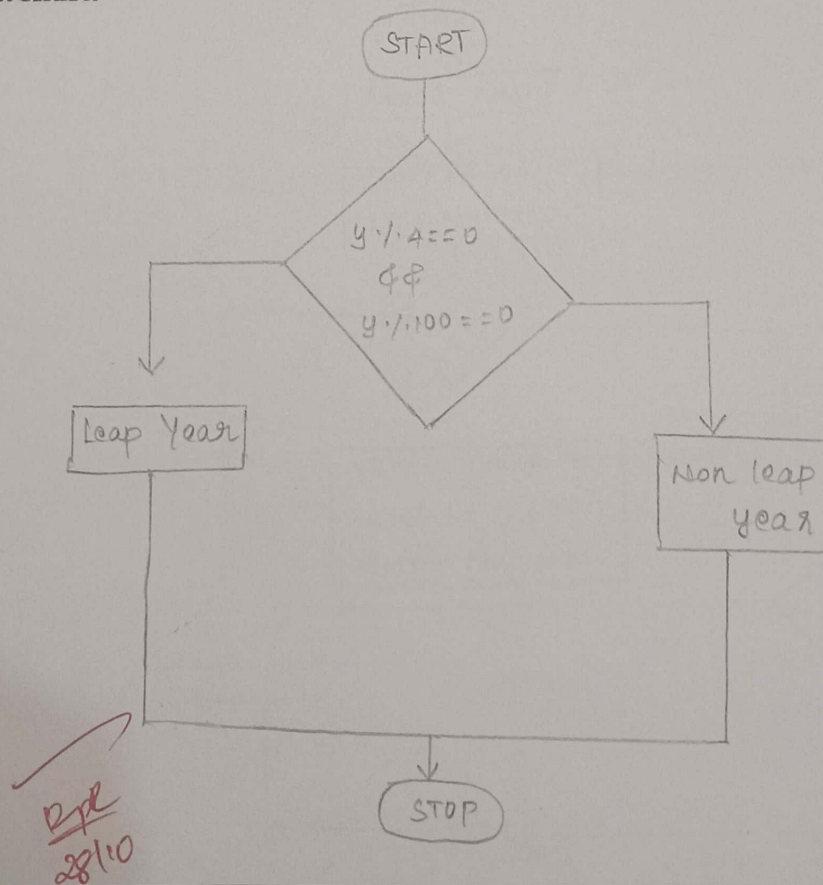
Algorithm:

STEP 01 : Read the value of year

STEP 02 : Divide the year by 4.

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

STEP 04 : Else, print Not a Leap Year.

Flowchart:

Ex. No.: 05

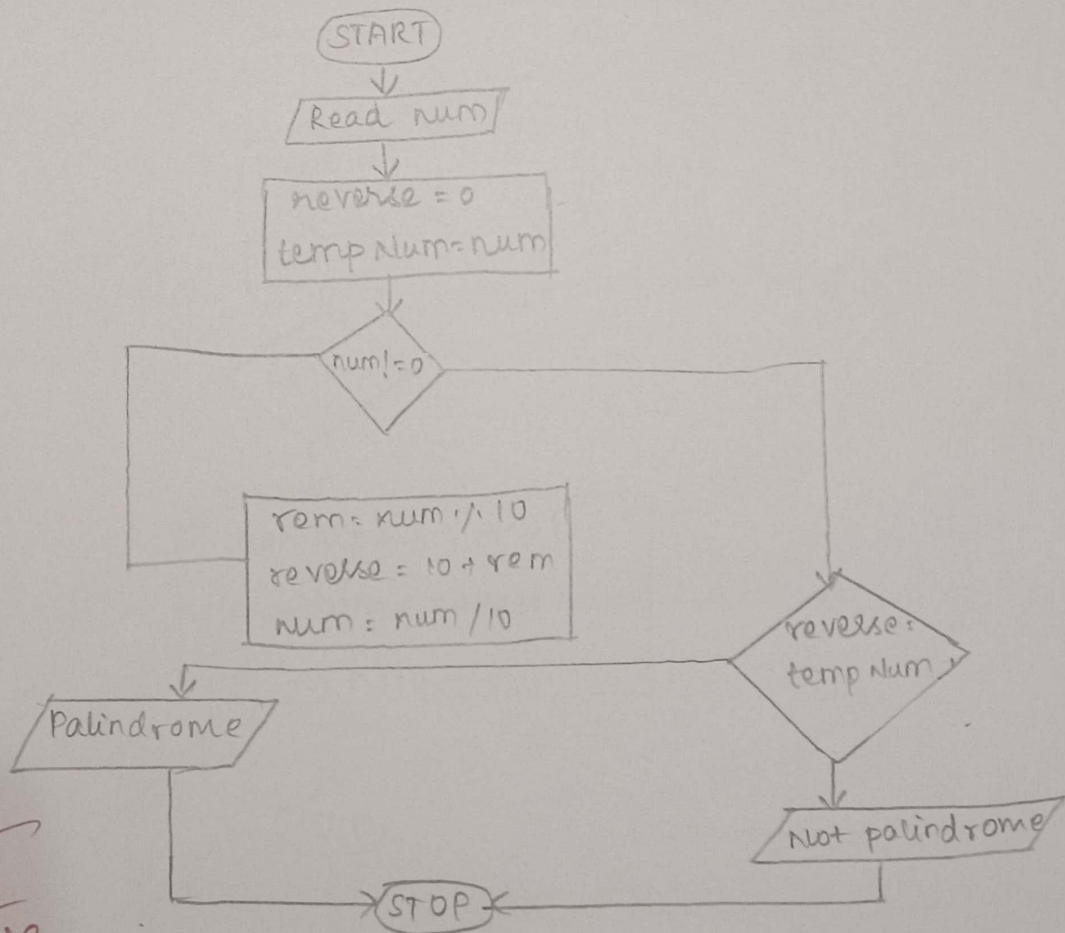
Date: 18/10/2024

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:

Ex. No.: 06

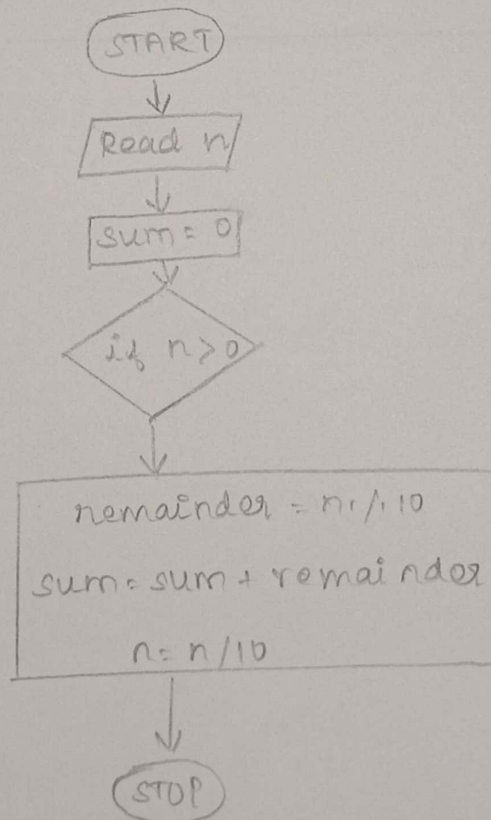
Date: 18/10/2024

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 remainder 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:

Rpr
28/10