

Ex. No.: 1

Date: 18/10/24

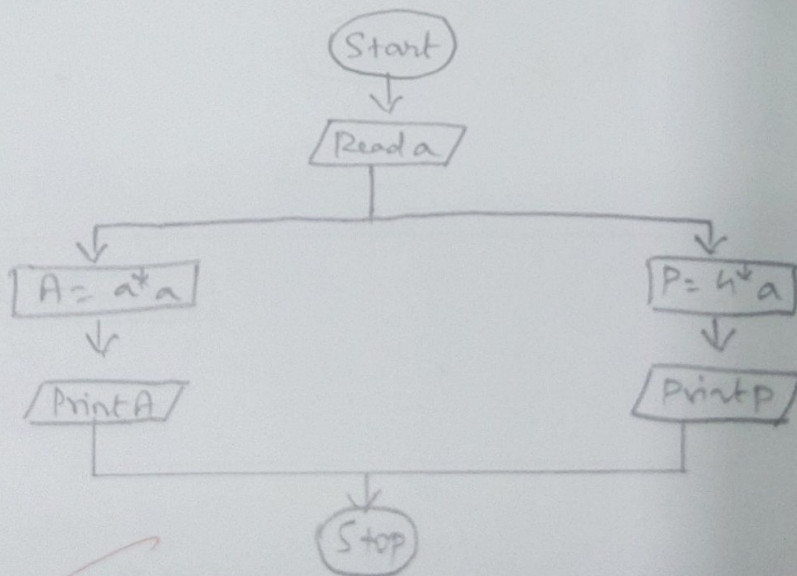
Calculate Area and Perimeter

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

Algorithm:

- Step 1: Start
- Step 2: Input a as value of side
- Step 3: $A = a * a$
- Step 4: print A as area of square
- Step 5: $P = 4 * a$
- Step 6: print P as Perimeter of square
- Step 7: Stop

Flowchart:



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28/10

Ex. No.: 2

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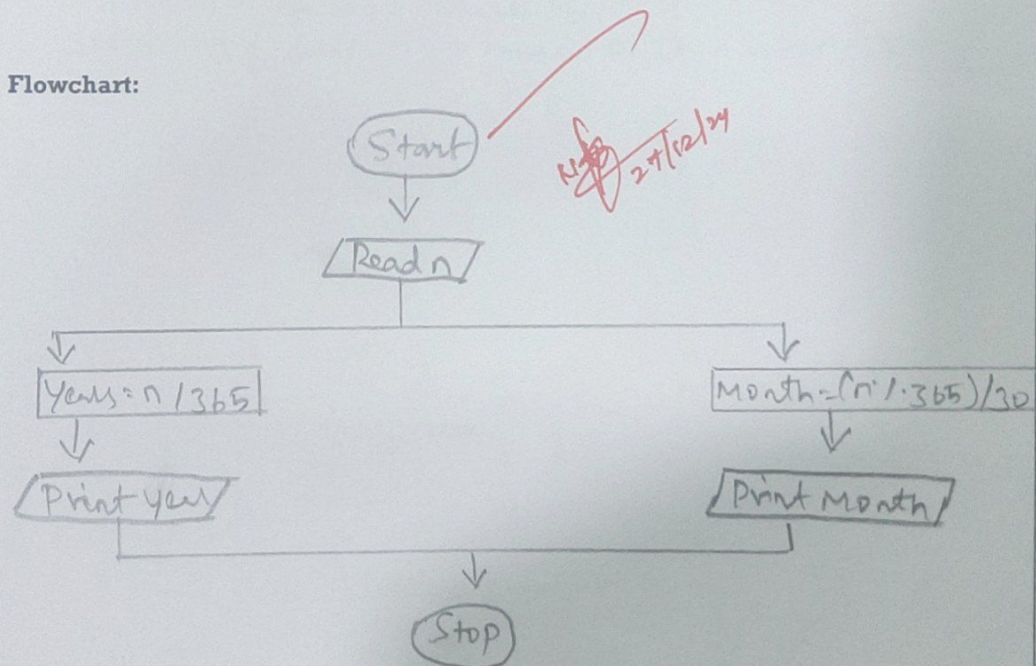
Days to Year Conversion

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

Algorithm:

- Step 1: Start
 Step 2: Get input for number of days 'n'
 Step 3: $\text{Years} = n / 365$
 $\text{Month} = (n \% 365) / 30$
 Step 4: Print year, Month
 Step 5: Stop

Flowchart:



Ex. No.: 3

Date: 18/10/24

Prime Number

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

Algorithm:

Step1: Start the program

Step2: Get input "n" from the user as a number

Step3: check if $n=0$ or $n=1$

Step4: If step-3 is true, Print n is not a prime number

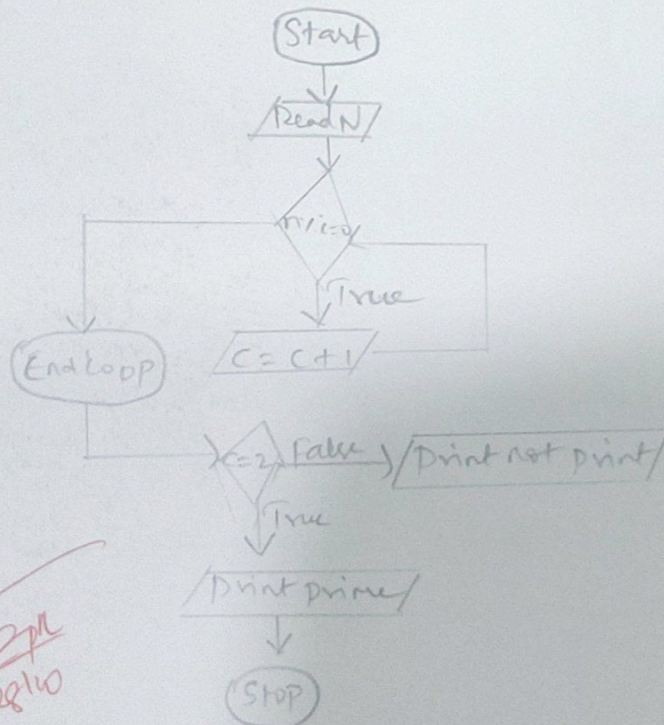
Step5: Otherwise check if $n > 1$

Step6: If step 5 is true, initialize a loop with variable i with range 2 to n

Step7: In the loop, check if $n \% i == 0$;

Step8: If step-7 is true, Print n is not a prime number

Flowchart:



Ex. No.: 4

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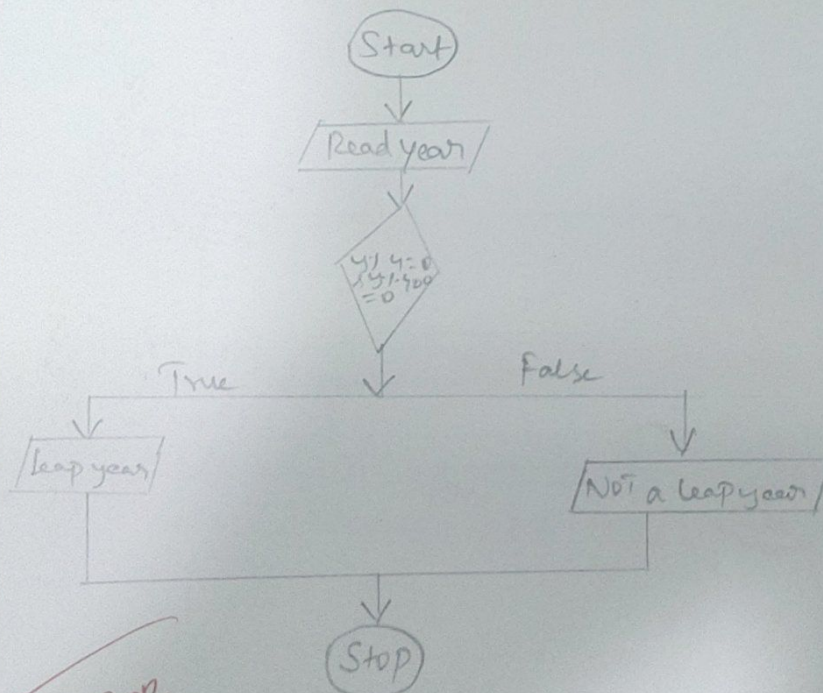
Leap Year

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

Algorithm:

- Step 1: Start
 Step 2: Assign value to the variable L
 Step 3: Check if year is divisible by 4 but not 100, Display "LEAPYEAR"
 Step 4: Check if leap year is divisible by 400, Display "LEAPYEAR"
 Step 5: Otherwise, print not leap year
 Step 6: Stop

Flowchart:



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28/10

Ex. No.: 5

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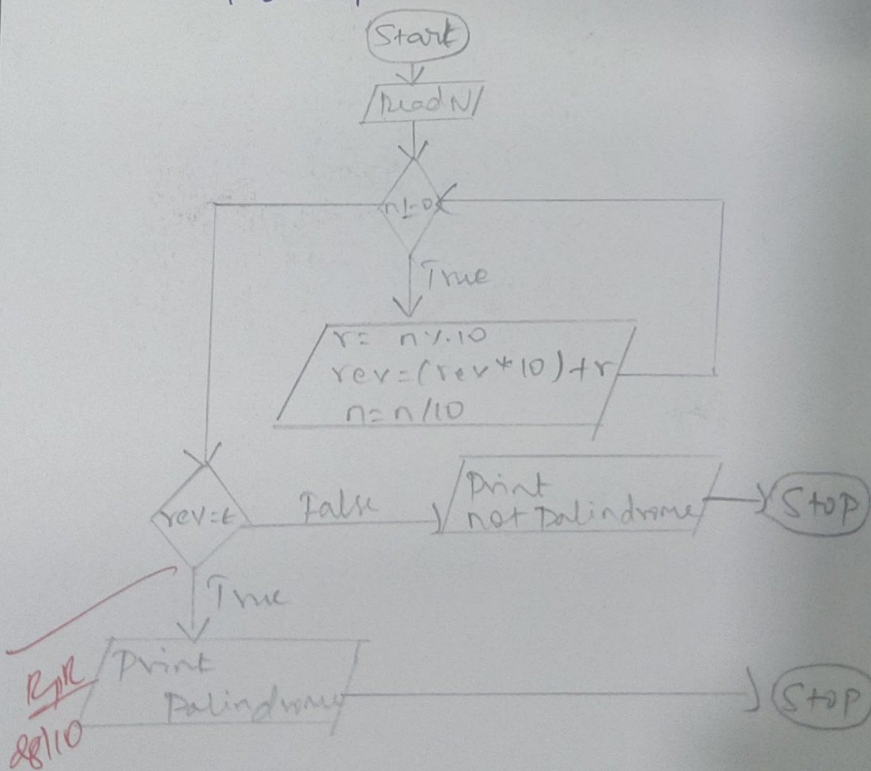
Palindrome Number

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

Algorithm:

- Step1: Start
 Step2: Read a number n
 Step3: Declare 'rev'=0
 Step4: Assigning 'n' to temp variable 'r'
 Step5: while loop n!=0
 Step6: $r = n \% 10$
 Step7: $rev = (rev * 10) + r$
 Step8: $n = n / 10$
 Step9: Exit loop
 Step10: Check if $rev == int$ | Print palindrome
 Step11: Otherwise, Print not Palindrome
 Step12: Stop

Flowchart:



Ex. No.: 6

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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: Read a , $S = 0$

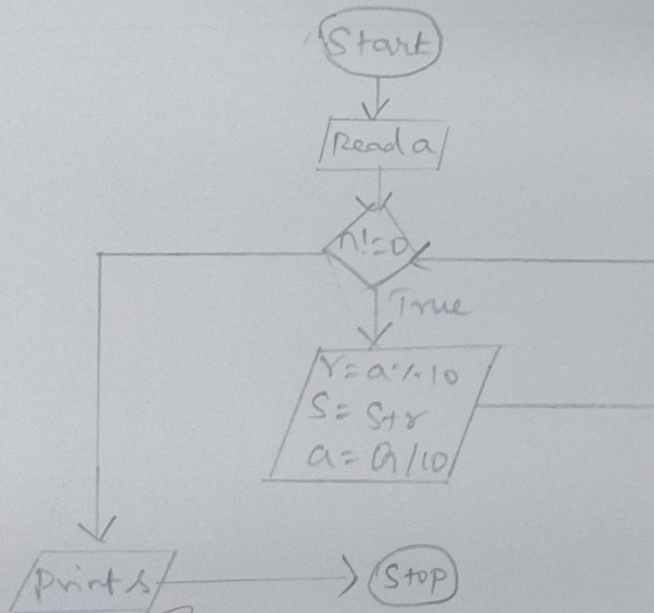
Step 3: While loop, $a \neq 0$

Step 4: $r = a \% 10$, $S = (S + r)$, $n = n / 10$

Step 5: Print S

Step 6: Stop

Flowchart:



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