Ex. No.: I

Date: 27.9.24

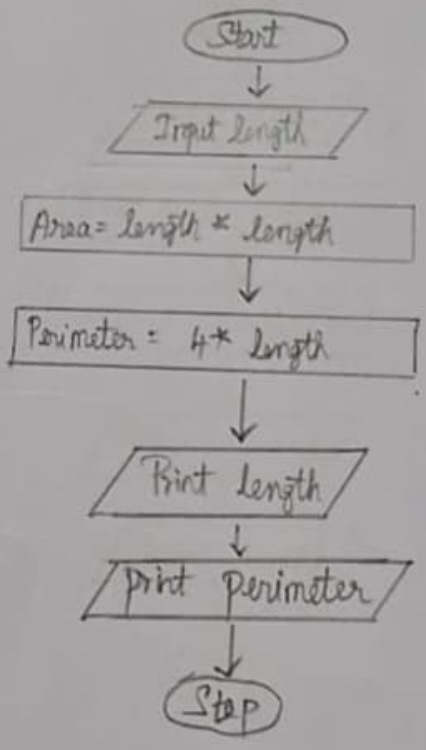
Calculate Area and Perimeter

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

Algorithm:

Step 1: Start
Step 2: Get length
Step 3: Calculate
area = length * length
Step 4: Calculate
Perimeter = 4 * length
Step 5: Print "area, Perimeter"
Step 6: Stop

Flowchart:



24/9/24.

Ex. No.: 12

Date: 27.9.24

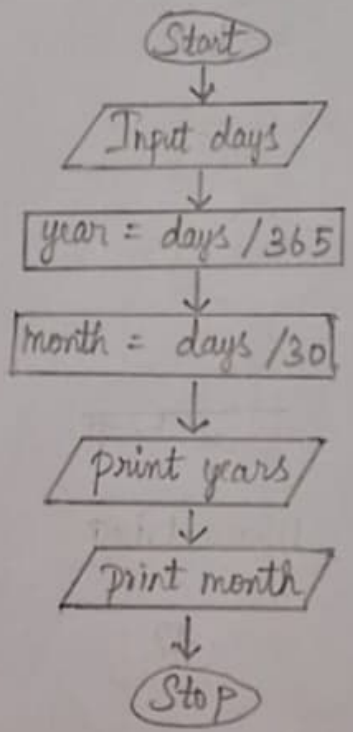
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: Get Days
Step 3: Calculate
year = days / 365
Step 4: Calculate
month = days / 30
Step 5: Print year, month
Step 6: Stop

Flowchart:



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Ex. No.: 11b

Date: 3.10.24

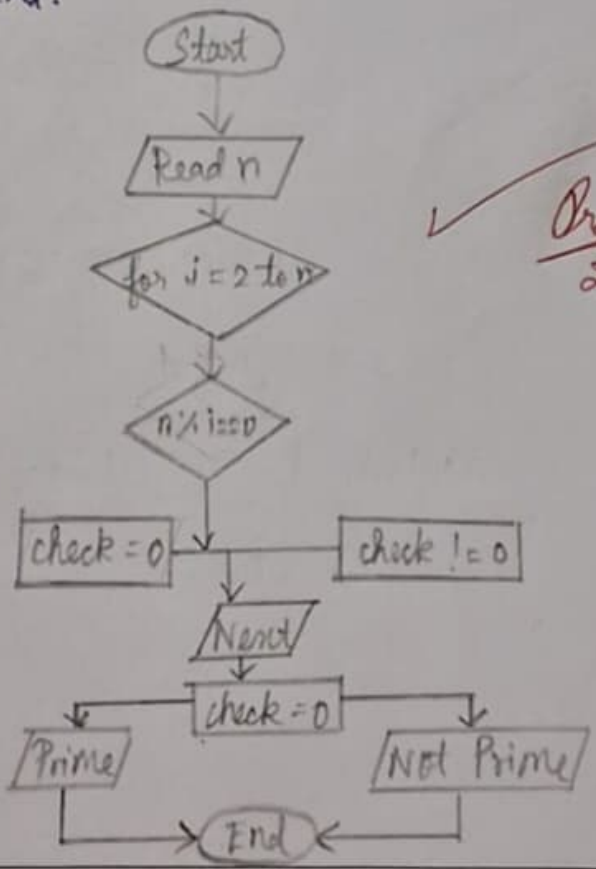
Prime Number

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

Algorithm:

Step 1 : Start
Step 2 : Read Input n
Step 3 : Check the number is not 1
Step 4 : Start a loop from 2 to n as 'i'.
Step 5 : Check n is divisible by i. If not proceed to step 7.
Step 6 : If all values of i are not divisible to n print prime
Step 7 : Display It is not a Prime
Step 8 : End.

Flowchart:



Proof
29/11/24

Ex. No.: IV

Date: 3.10.24

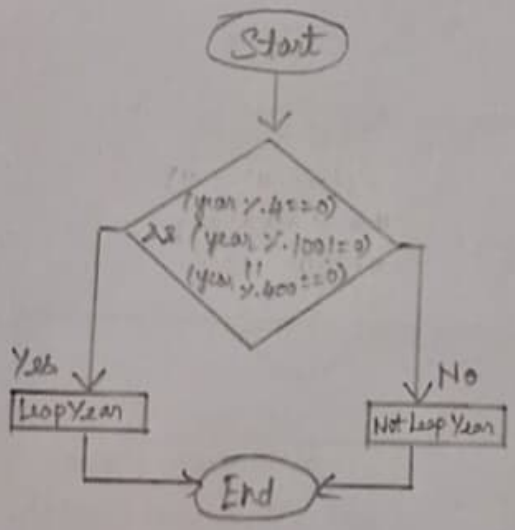
Leap Year

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

Algorithm:

Step 1: Start
Step 2: Read Year
Step 3: Calculate
year %. 4 == 0
Step 4: Calculate year %. 100 != 0 and year %. 400 == 0
Step 5: Print leap year
Step 6: If not print not a leap year
Step 7: Stop.

Flowchart:



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Ex. No.: 8 V

Date: 3.10.24

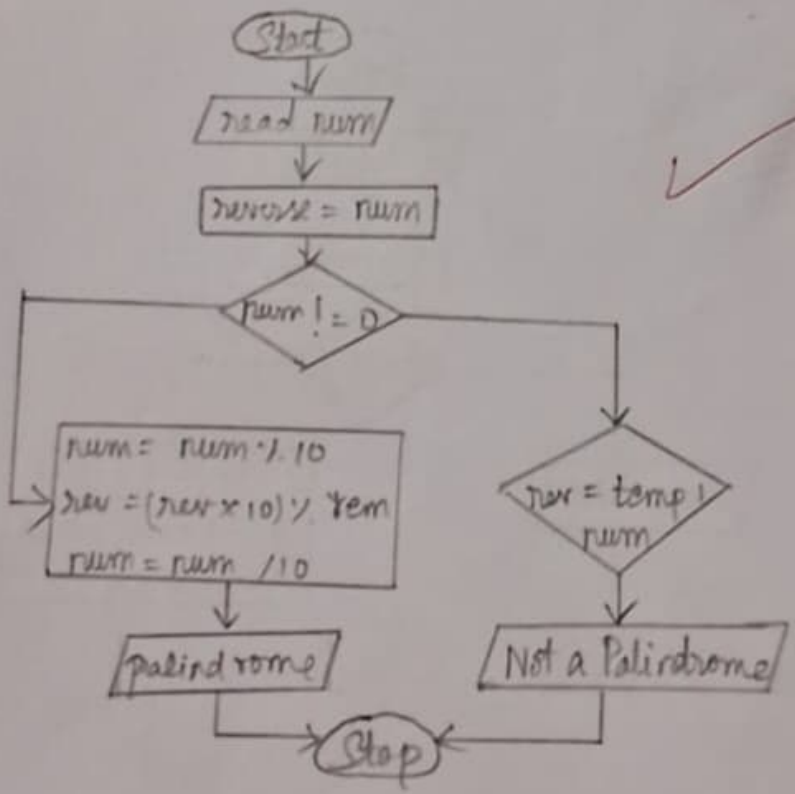
Palindrome Number

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

Algorithm:

Step 1: Start
Step 2: Read the input
Step 3: Declare and initiaze the variable rev and assign input to a variable temp num = num
Step 4: Start while loop temp num != 0 become false.
rem = num % 10 , reverse = reverse * 10 + rem, num = num / 10
Step 5: If rev = temp num its true and Palindrome
Step 6: If not, Itn not a palindrome
Step 7 : Stop.

Flowchart:



Rev P
30/11/24.

Ex. No.: 6 VI

Date: 3.10.24

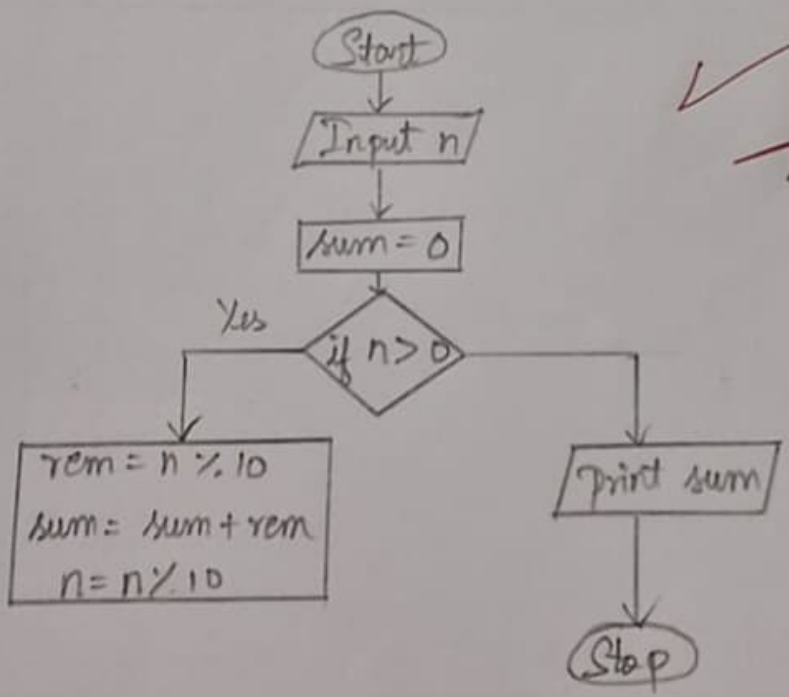
Sum of Digits

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

Algorithm:

Step 1: Start
Step 2: input n
Step 3: Declare sum = 0
Step 4: rem = n % 10
sum = sum + rem
n = n / 10
Step 5: if (n > 0) go to step 4 otherwise to step 6
Step 6: print sum
Step 7: Stop.

Flowchart:



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