Date: 18.10.2024

Ex. No.: 1

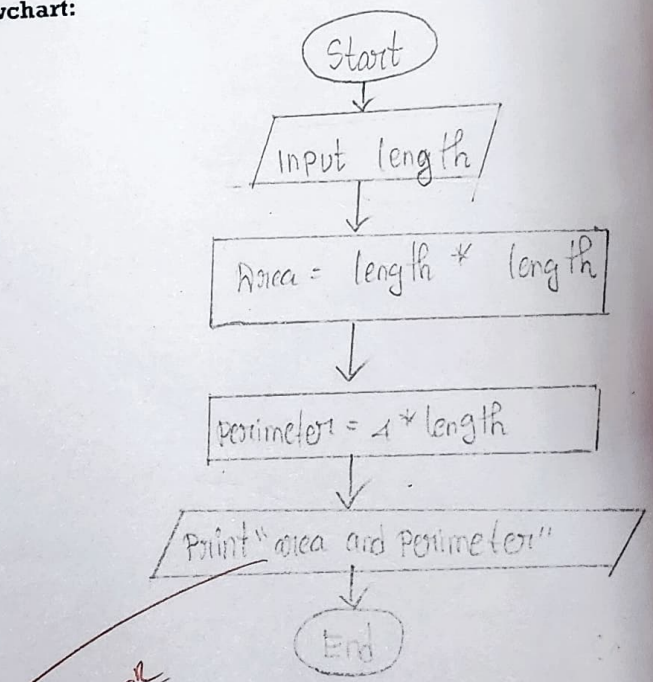
Calculate Area and Perimeter

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

Algorithm:

Step 1 : Begin
Step 2 : input length
Step 3 : Area of square length * length
Step 4 : Perimeter of square 4 * length
Step 5 : Assign the value of length
Step 6 : print area and Perimeter

Flowchart:



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25/10/24

Ex. No.: 2 **Date:** 18/10/24

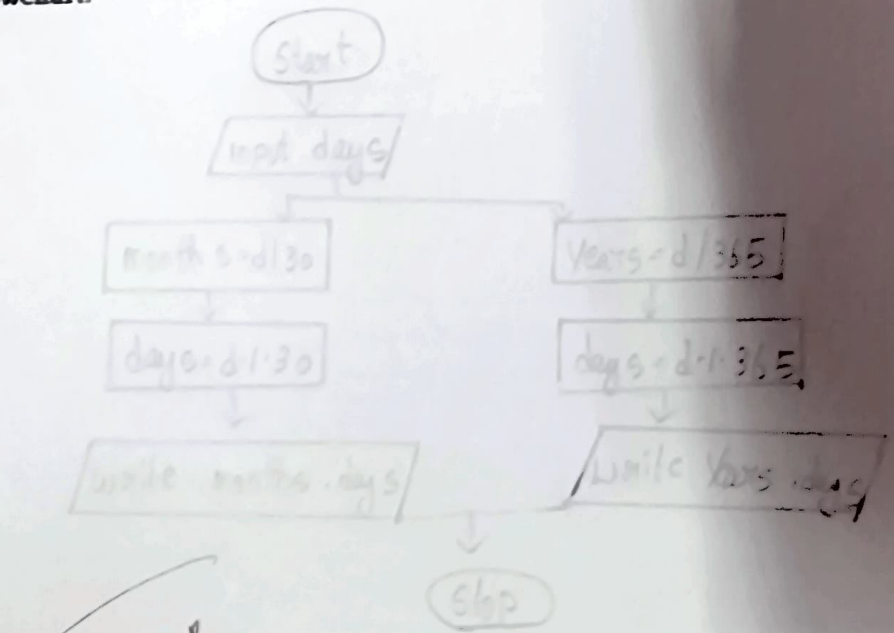
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: Compute Days, Years, Months
Step 3: days/365, Years
Step 4: days/30, Months
Step 5: Years = /d, months = /d
Step 6: Print Years and months into days
Step 7: End

Flowchart:



Ex. No.: 3

Date: 19/8/24

Prime Number

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

Algorithm:

Step1 : Start

Step2 : Take num as input

Step3 : Initialize a variable temp to 0

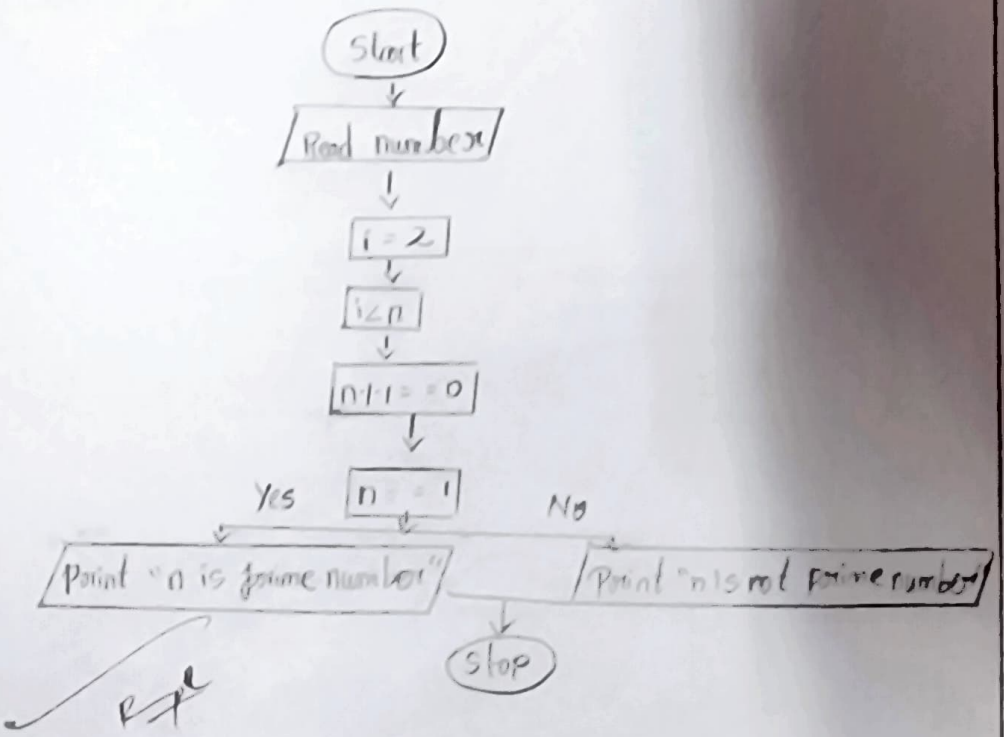
Step4 : Iterate a "for" loop from 2 to num/2

Step5 : If num is divisible by loop iterator, then increment temp

Step6 : If the temp is equal to 0

Step7 : Print("Num is prime)
else ("Num is not prime")

Flowchart:



Ex. No.: 4 **Date:** 18/10/24

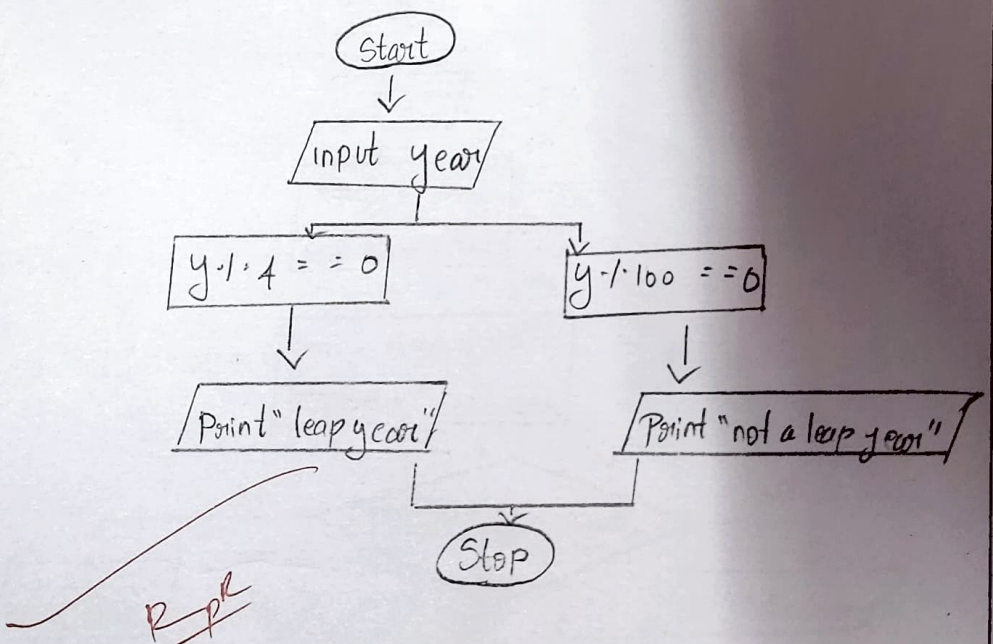
Leap Year

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

Algorithm:

Step:1 Start
Step2 : Input the year
Step 3 : Check if year is divisible by 4
Step 4 : Print ("Year is leap year")
Step 5 : else
Print ("Year is not leap year")
Step 6 : Stop

Flowchart:



Ex. No.: 5 **Date:** 18/10/24

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 : Compute the input number

Step 3 : remainder = num % 10

Reverse = Reverse * 10 + remaind

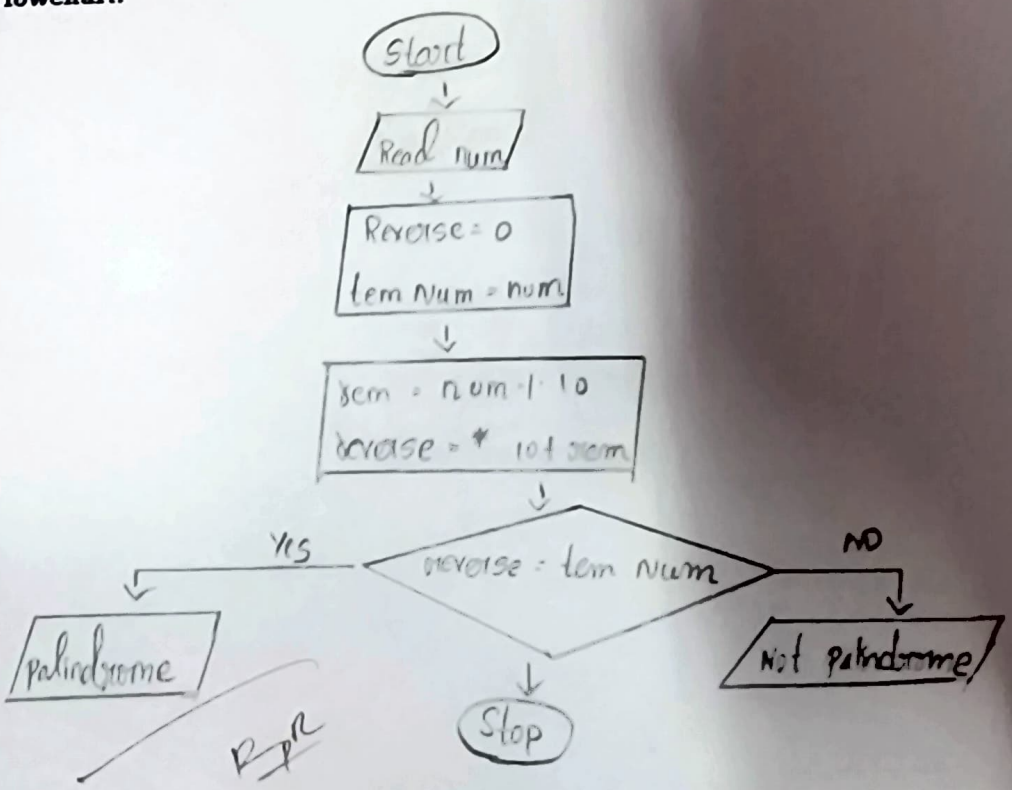
Step 4 : check if reverse == tempNum

Step 5 : if true print (number is palindromic)

else print (number is not palindromic)

Step 6 : stop

Flowchart:



Ex. No.:6

Date: 18/10/24

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 : Read given number N
Step 3 : Set a variable sum to 0
Step 4 : While N is greater than 0
Step 5 : digit = N % 10
Step 6 : Add digit Sum : Sum = Sum + digit
Step 7 : Print the value of Sum
Step 8 : Stop

Flowchart: