Date: 22/10/24

Ex. No.: 1

Calculate Area and Perimeter

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

Algorithm:

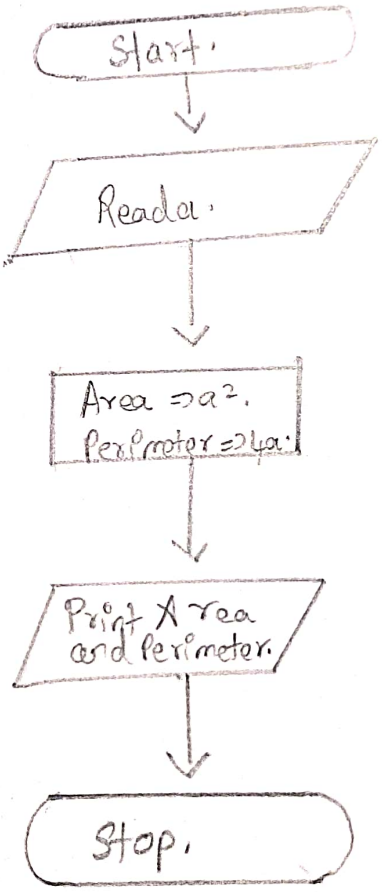
Step 1 :- Take side of Square as a .

Step 2 :- Get the value of a .

Step 3 :- To find the area of the square $\Rightarrow a^2$.

Step 4 :- To find the perimeter of the Square $\Rightarrow 4a$.

Flowchart:



RPR

Ex. No.: 2

Date: 22/10/24.

Days to Year Conversion

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

Algorithm:

Step1:- let take no of days as a.

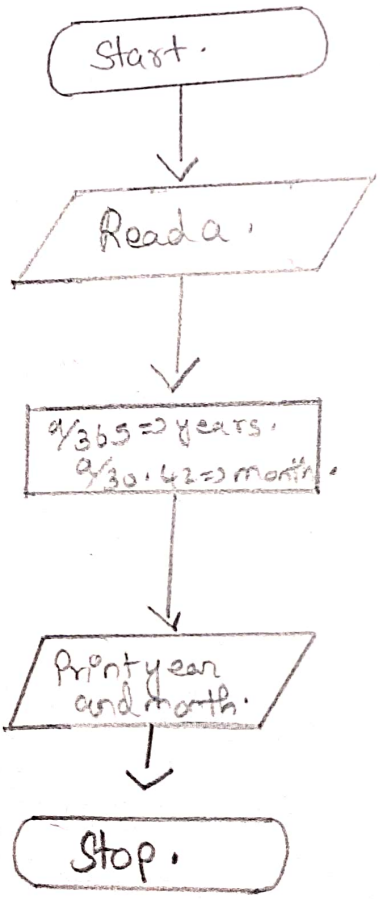
Step2:- $a/365$ => years.

Step3:- Print year value.

Step4:- $\frac{365}{12}$ => 30.42.

Step5:- $a/30.42$ => months.

Flowchart:



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Ex. No.: 3

Date: 22/10/24

Prime Number

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

Algorithm:

Step1:- Take n as number.

Step2: Iterate a loop.

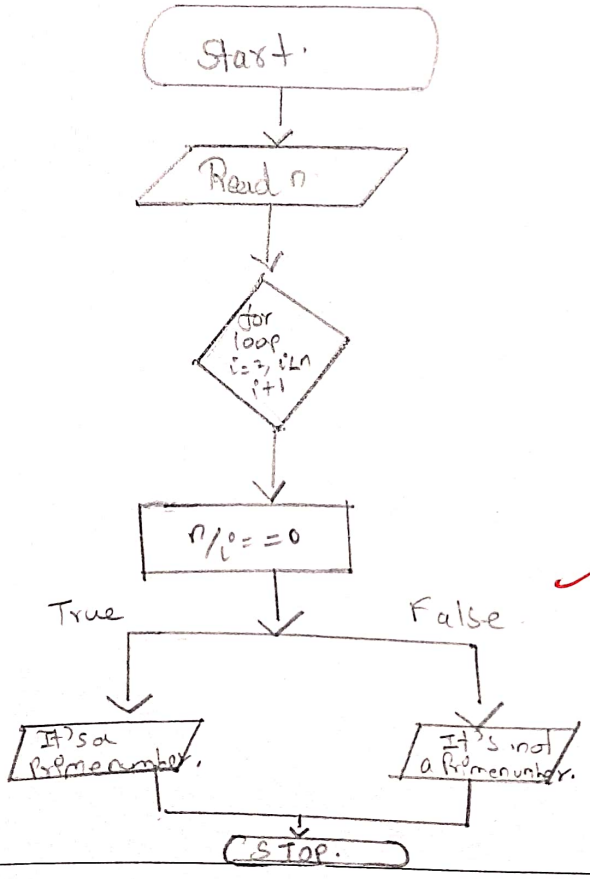
(i = 2, i<n, i+1)

Step3:- n%i == 0.

Step4:- if it's not a prime number.

Step5:- otherwise If it's a prime number.

Flowchart:



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Date: 22/10/24

Ex. No.: 4

Leap Year

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

Algorithm:

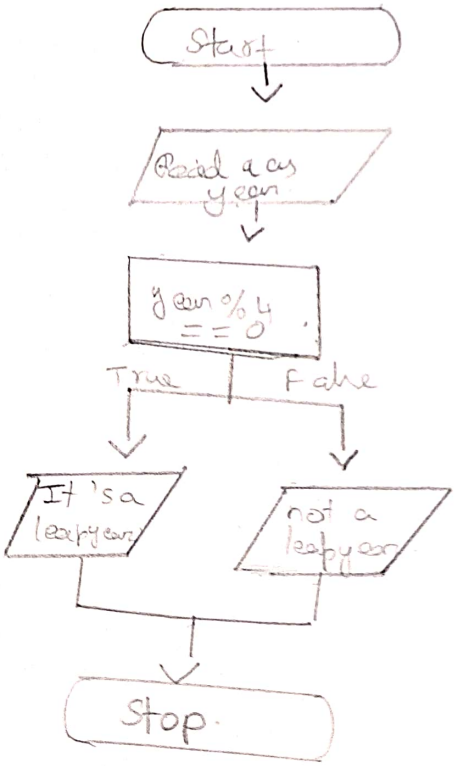
Step1:- let take as a year.

Step2:- year % 4 == 0.

Step 3:- If it is true, it is a Leapyear.

Step4:- otherwise it not a leap year.

Flowchart:



RPR

Ex. No.: 5

Date: 22/10/24

Palindrome Number

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

Algorithm:

Step 1:- let take n as int.

Step 2:- Assign reversed = 0.

Step 3:- n1 = n.

reversed = reversed * 10 + remainder.

Step 4:- n / = 10.

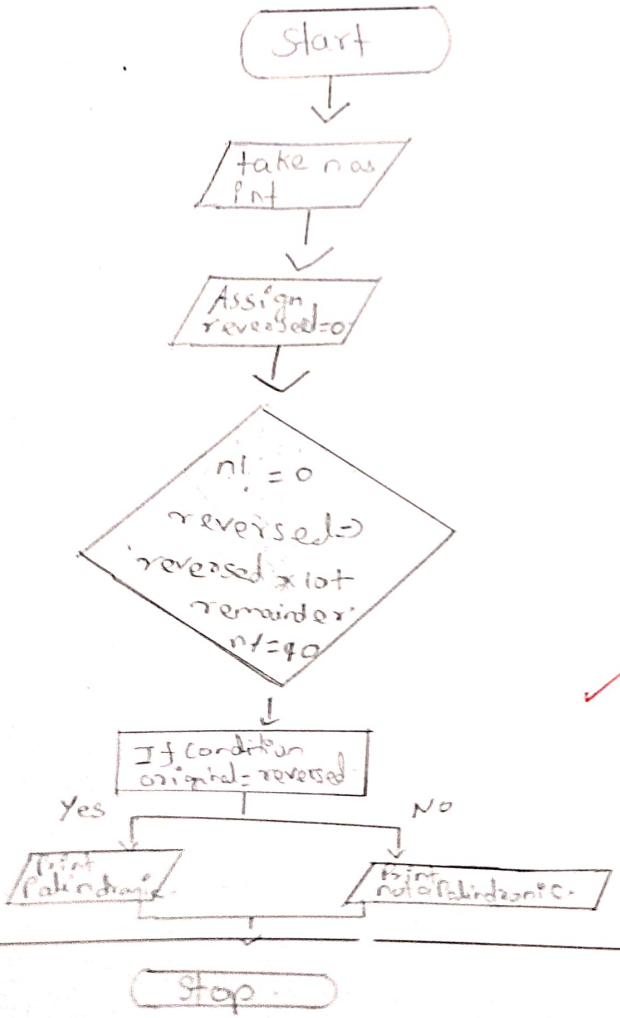
Step 5:- If condition.

Original = reversed.)

Step 6:- Print It is a Palindrome.

Step 7:- otherwise Print It is not a palindrome.

Flowchart:



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Date: 22/10/24

Ex. No.: 6

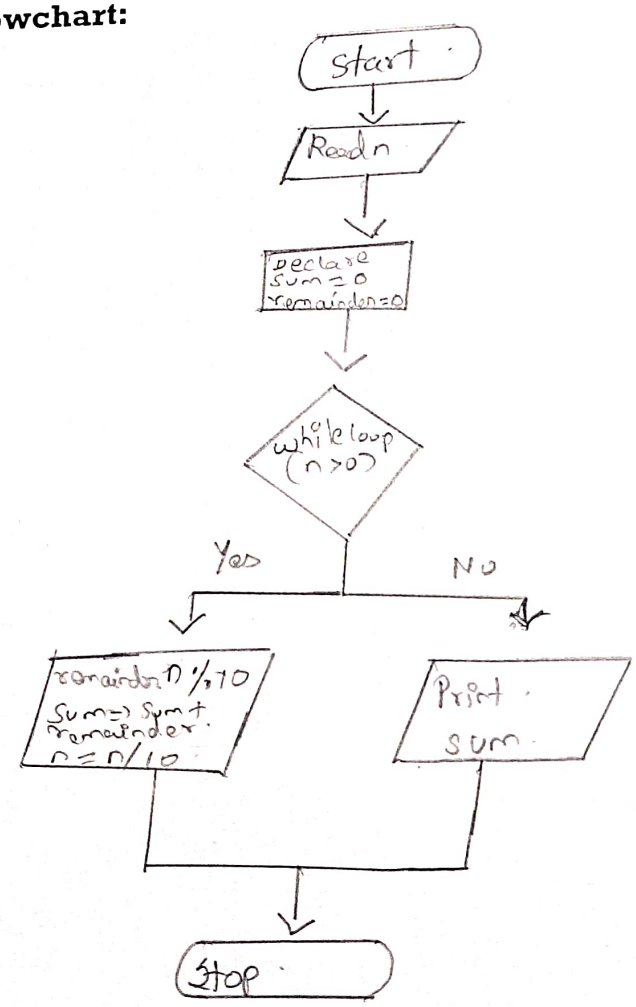
Sum of Digits

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

Algorithm:

Step 1:- Get an number n.
Step 2:- Declare sum = 0, remainder = 0.
Step 3:- Read n.
Step 4:- while loop (n>0).
Step 5:- remainder n%10.
Step 6:- sum = sum + remainder.
Step 7:- n => n/10.

Flowchart:



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