

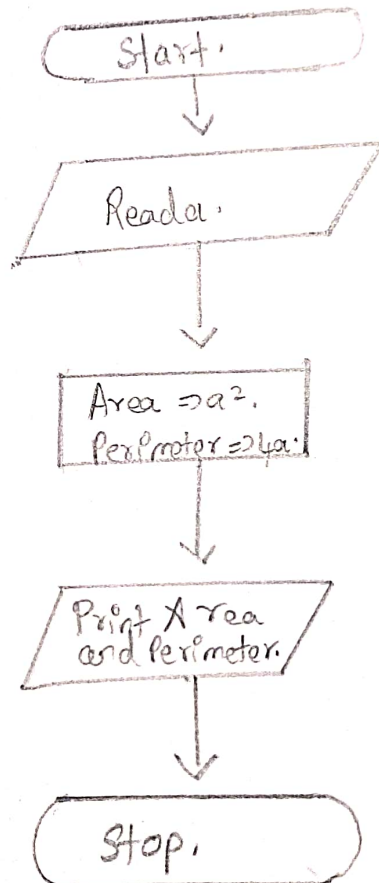
## Calculate Area and Perimeter

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:

Step 1:- let take no of days as a.

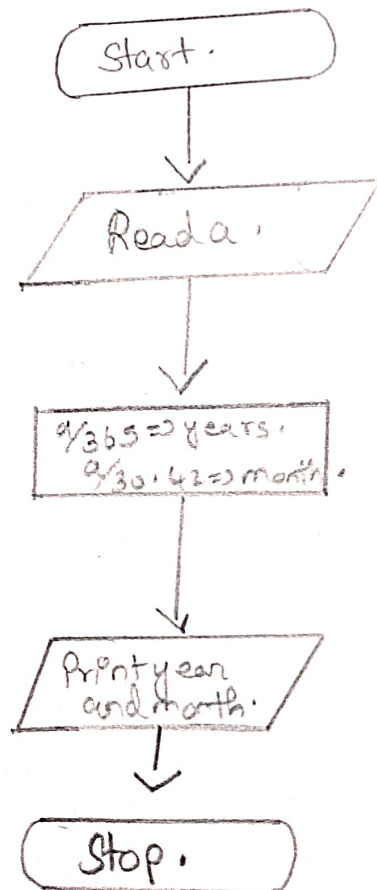
Step 2:-  $a/365 \Rightarrow \text{years}$ .

Step 3:- Print year value.

Step 4:-  $\frac{365}{12} \Rightarrow 30.42$ .

Step 5:-  $a/30.42 \Rightarrow \text{months}$ .

#### Flowchart:



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Ex. No.: 3

Date: 22/01/24

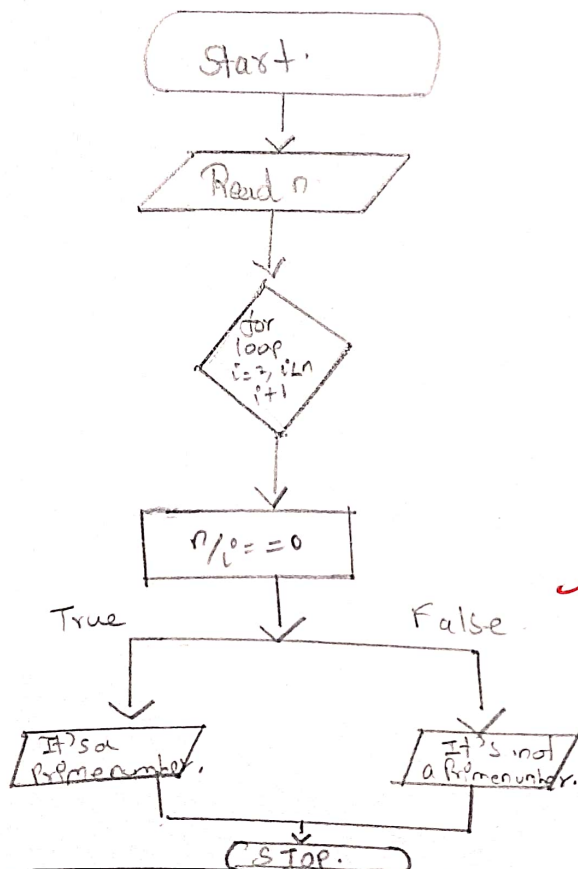
## Prime Number

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

### Algorithm:

- Step 1:- Take  $n$  as number .  
Step 2:- Iterate a loop .  
( $i = 2, i < n, i + 1$ )  
Step 3:-  $n \% i == 0$  .  
Step 4:- if it's not a prime number .  
Step 5:- otherwise If it's a prime number.

### Flowchart:



Ex. No.: 4

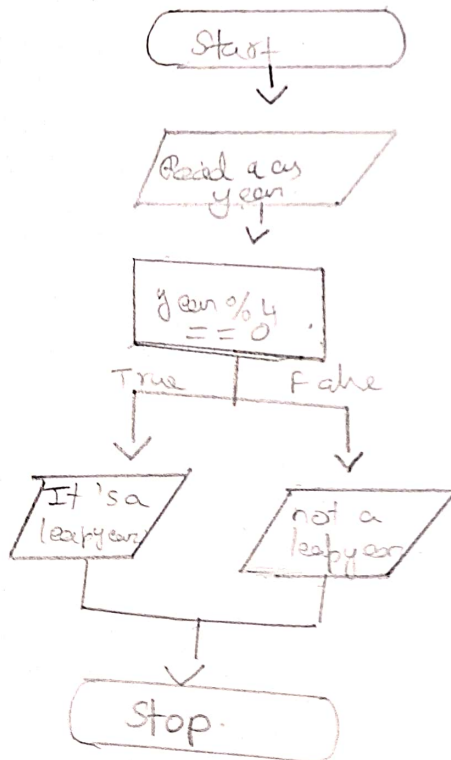
## Leap Year

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

## Algorithm:

- Step 1: let take ~~a~~ as a year .  
Step 2:  $\text{year} \% 4 == 0$  .  
Step 3: If it is true , it is a Leap year .  
Step 4: otherwise it not a leap year .

## Flowchart:



RPR



Ex. No.: 5

Date: 22/10/24

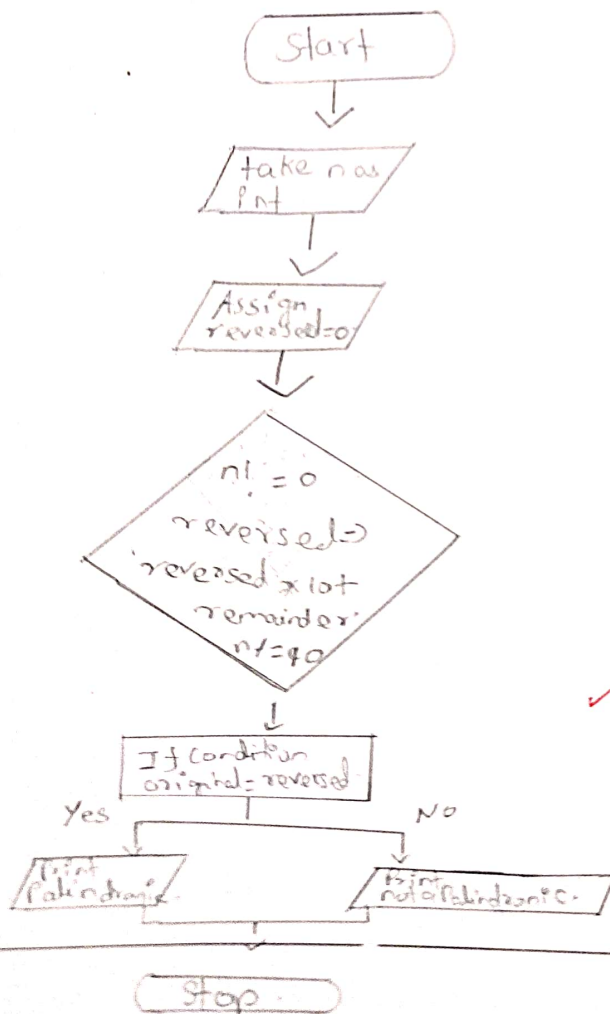
### Palindrome Number

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:  $n \neq 0$  .  
           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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Ex. No.: 6

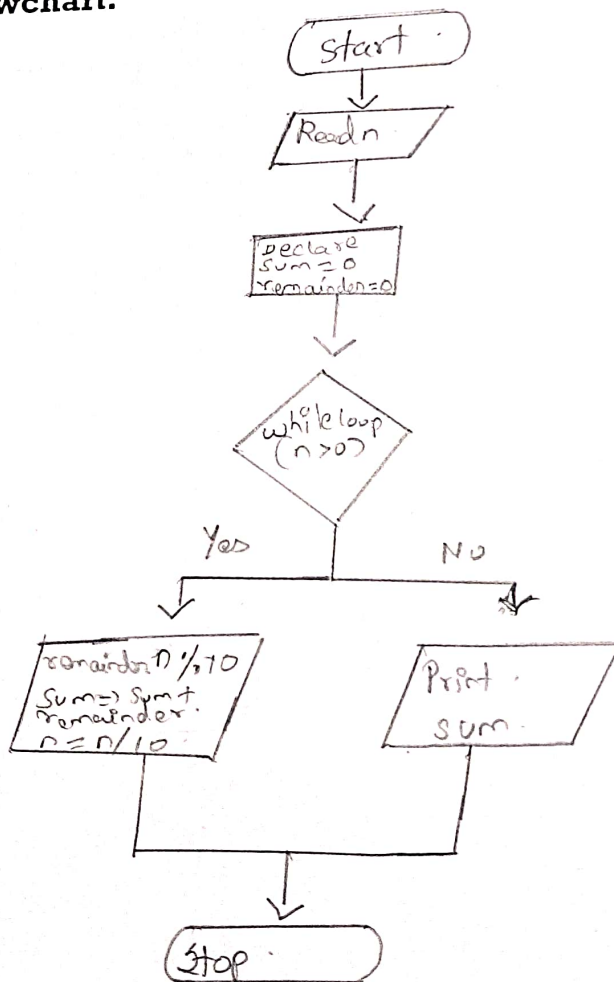
## Sum of Digits

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

Algorithm:

- Step 1:- Get a 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:



RPR