

Ex. No.: 1

Date: 10/10/24

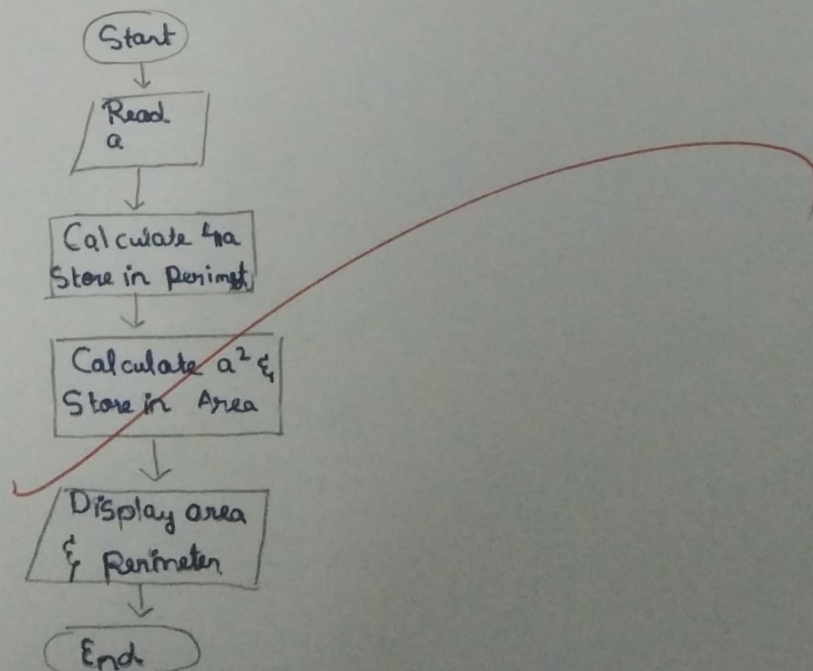
Calculate Area and Perimeter

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

Algorithm:

- Step 1: Start
- Step 2: Read the value a
- Step 3: Calculate $4a$ & store it in Perimeter
- Step 4: Calculate a^2 & store it in Area
- Step 5: Display Perimeter
- Step 6: Display Area
- Step 7: Stop

Flowchart:



Ex. No.: 2

Date: 3/10/24

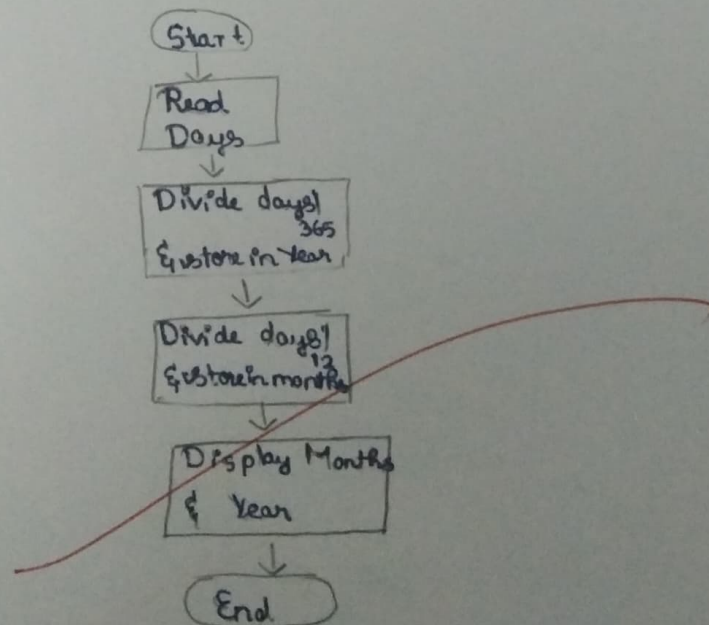
Days to Year Conversion

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

Algorithm:

- Step 1: Start
Step 2: Read Days
Step 3: Divide days/365 &
store in Years
Step 4: Divide days/12 &
store in Months
Step 5: Display Year & Months
Step 6: Stop

Flowchart:



Ex. No.: 3

Date: 26/10/24

Prime Number

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

Algorithm:

Step 1 → Read Number

Step 2 → Check whether the number is divisible by numbers other than 1.

• If yes go to step 3

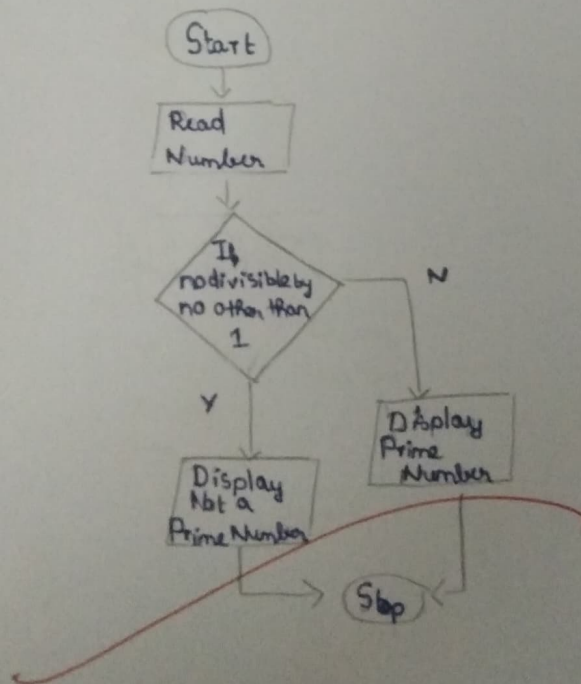
• If No go to step 4

Step 3 → Display Not a prime number

Step 4 → Display A prime number

Step 5 → Stop

Flowchart:



Ex. No.: 4

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:

Step1: Start

Step2: Read Year

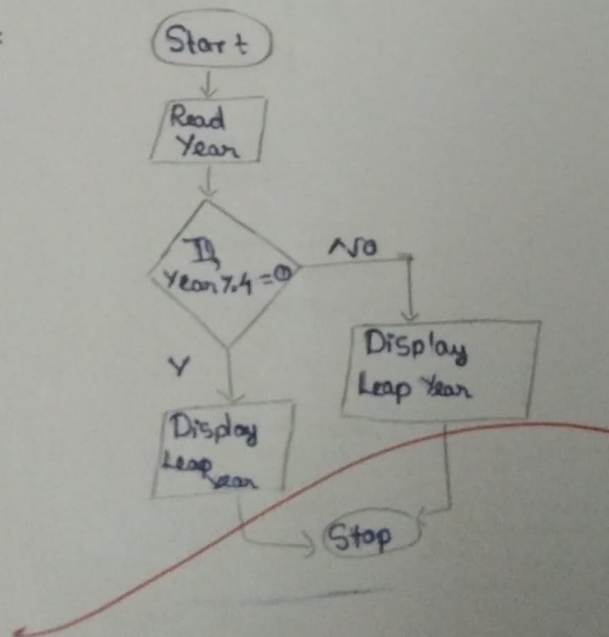
Step3: If $\text{Year} \% 4 = 0$ goto step 4
otherwise go to step 5

Step4: Display Leap Year

Step5: Not a leap Year

Step6: Stop

Flowchart:



Ex. No.: 5

Date: 10/10/24

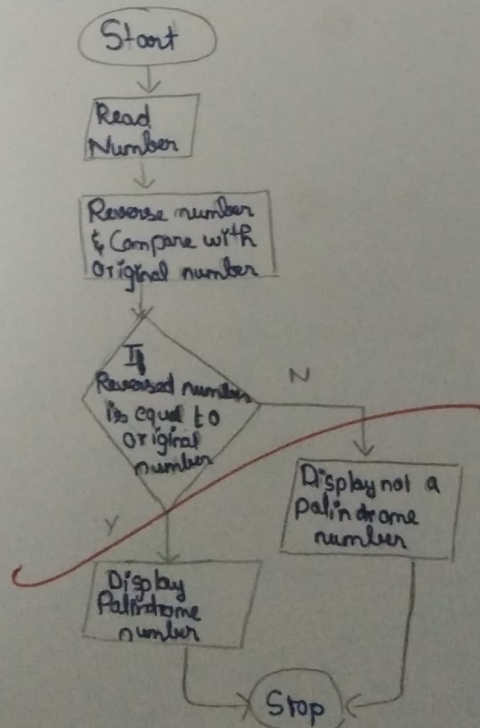
Palindrome Number

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 number
- Step 3 : Reverse the Number
- Step 4 : Compare reversed number with original number
- Step 5 : If they are equal go to step 6 otherwise go to step 7
- Step 6 : Display palindrome number
- Step 7 : Display Not a palindrome number
- Step 8 : End

Flowchart:



Ex. No.: 6

Date: 10/10/24

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 input as 'n'

Step 3: Initialize sum = 0

Step 4: Calculate remainder = $n \% 10$ go to step 5

Step 5: Calculate sum = sum + remainder Go to step 6

Step 6: Calculate $n = n / 10$ go to step 7

Step 7: If $n = 0$ go to step 8, else go to step 4

Step 8: Print sum

Step 9: Stop

Flowchart:

