

Ex. No.: 1

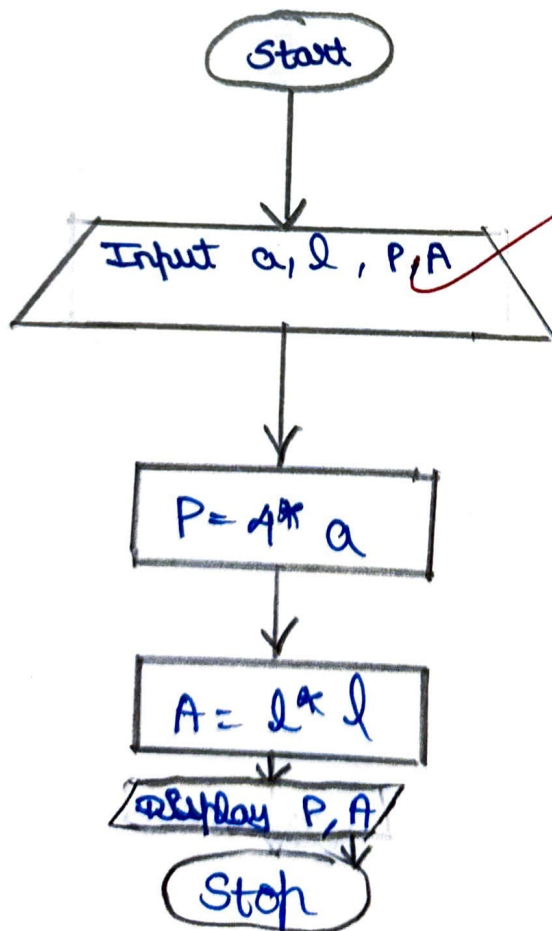
Calculate Area and Perimeter

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

Algorithm:

- STEP I : Start
 STEP II : Input a, l
 STEP III : calculate Perimeter $= 4 * a$, go to step IV
 STEP IV : calculate Area $= l * l$, go to step V
 STEP V : Display Perimeter
 STEP VI : Display Area
 STEP VII : Stop

Flowchart:



20
5/12/24

Date: 04/10/24

Ex. No.: 2

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: Input days

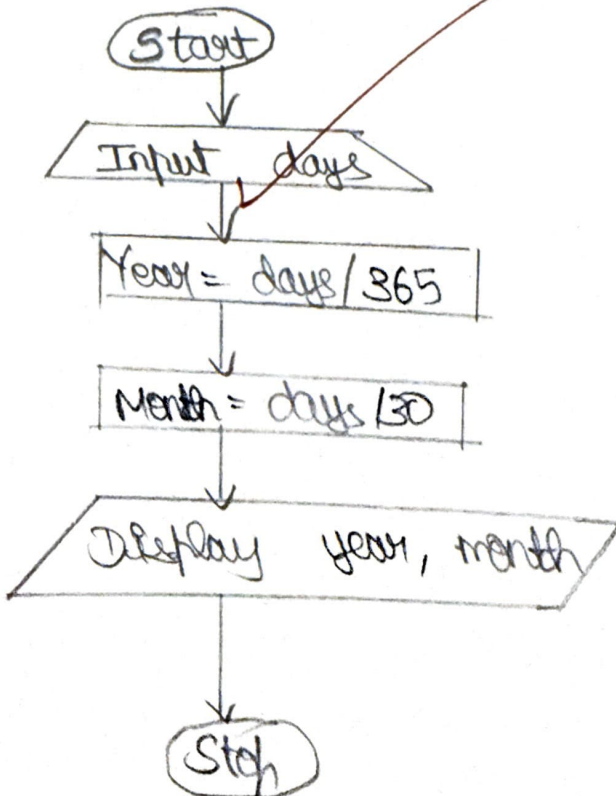
STEP 3: calculate $\text{year} = \text{days} / 365$, go to step 5STEP 4: calculate $\text{month} = \text{days} / 30$, go to step 6

STEP 5: Display year

STEP 6: Display month

STEP 7: Stop

Flowchart:

Red
3/12/24

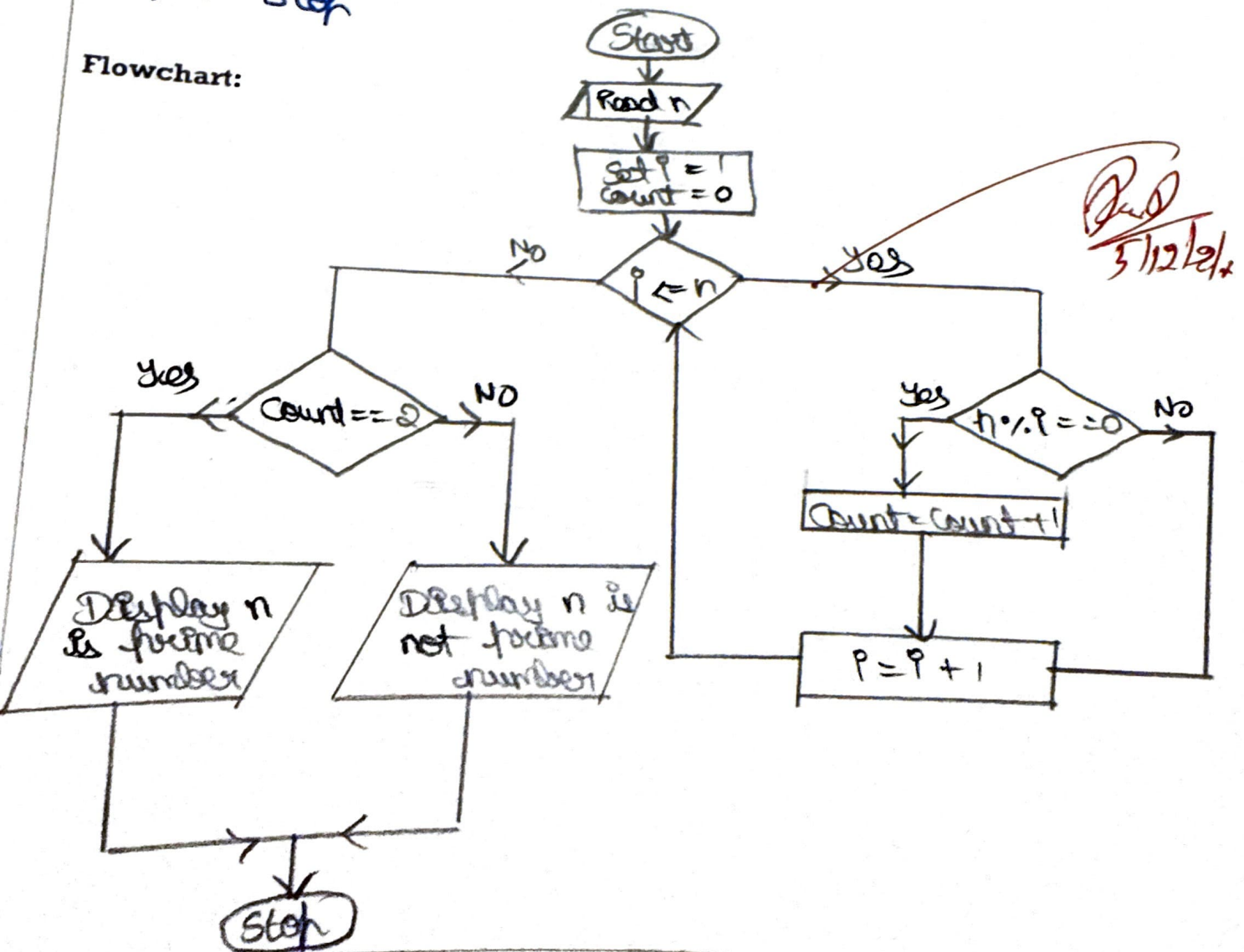
Prime Number

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

Algorithm:

- Step 1: Start
 Step 2: Read value n
 Step 3: Set $i = 1$, Count = 0
 Step 4: If $i \leq n$, If go to step 5, otherwise go to step 8
 Step 5: Check $n \% i == 0$, go to step 6, otherwise go to step 7
 Step 6: Set Count = Count + 1
 Step 7: $i = i + 1$, go to step 4
 Step 8: Check count, If count = 2, Display Prime number, otherwise not a prime number
 Step 9: Stop

Flowchart:



Leap Year

Algorithm:

step 5

Step 6: step

Start

Input year

Calculate
Loop Year =
Year $\times 4 = 0$

Yes

No

Display it
in 100 years

Is not
look you

Step

5/12/29

Ex. No.: 5

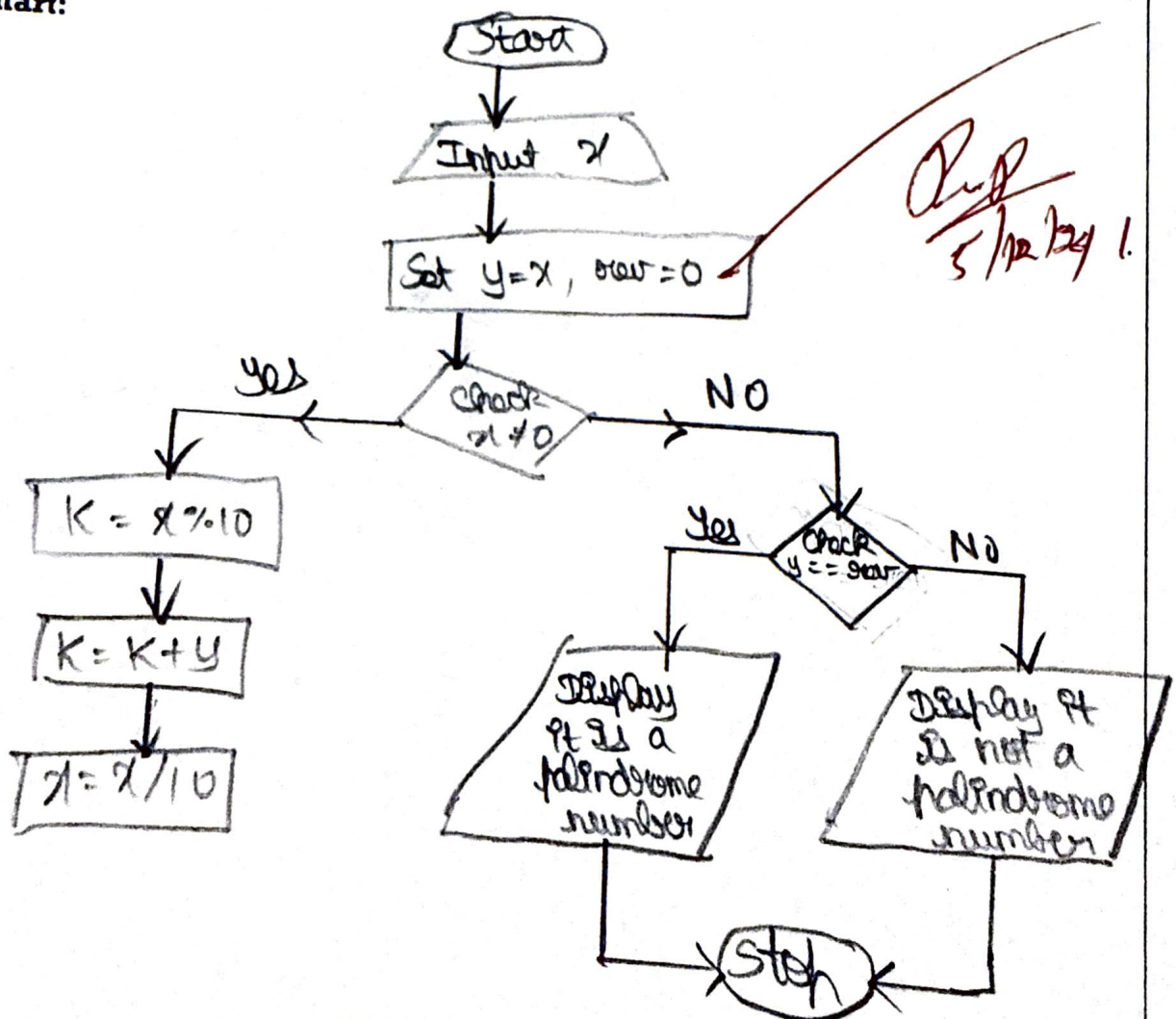
Palindrome Number

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

Algorithm:

- Step 1: Start
 Step 2: Input x
 Step 3: Set $y = x$, $rev = 0$
 Step 4: Check if $x = 0$, otherwise go to step 8
 Step 5: Compute $k = x \% 10$
 Step 6: $rev = rev * 10 + k$
 Step 7: $x = x / 10$, go to step 4
 Step 8: Check if $y == rev$, otherwise go to step 10
 Step 9: Display It is a palindrome number
 Step 10: Display It is not a palindrome number
 Step 11: Stop

Flowchart:



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: Start
 Step 2: Input x
 Step 3: Set $K = 0$
 Step 4: Check if $x \neq 0$, go to Step 5
 Step 5: Compute $y = x \% 10$
 Step 6: $K = K + y$
 Step 7: Compute $x = x / 10$, go to Step 4
 Step 8: Display K
 Step 9: Stop

Flowchart:

