

Week 0

Roll no : 240801177

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GE23131 - Programming Using C

Ex. No.: 1

Date: 26/9/24

### 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 : INPUT side

Step 3 : Area = Side \* Side

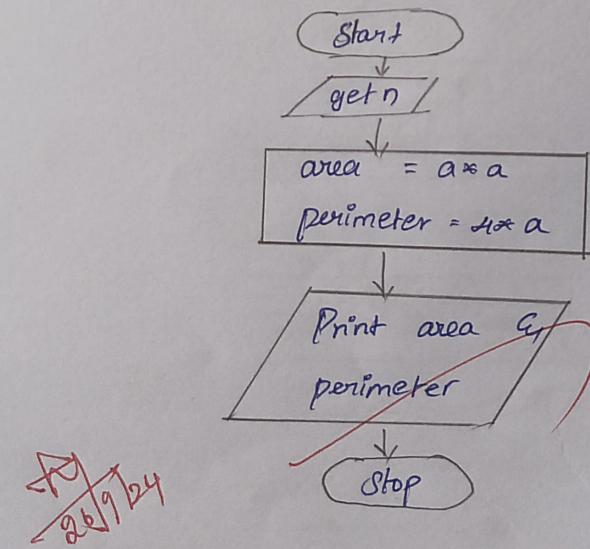
Step 4 : Perimeter = 4 \* side

Step 5 : Output Area (or) Print Area

Step 6 : Output Perimeter (or) Print Perimeter

Step 7 : Stop.

Flowchart:



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Ex. No.: 2

Date: 26/9/29

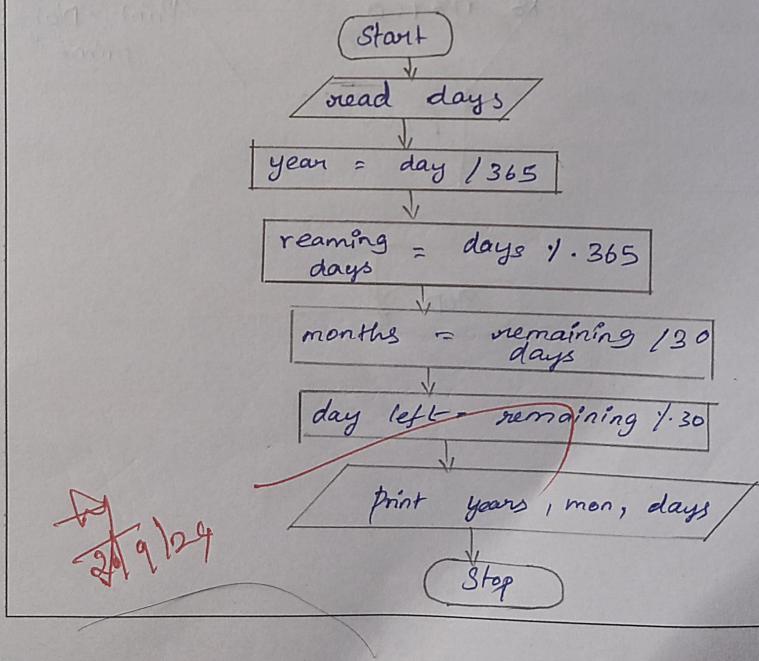
### Days to Year Conversion

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

#### Algorithm:

- Step 1 : START
- Step 2: Input number of days
- Step 3 : Compute years = total days / 365
- Step 4: Compute remaining days = total days % 365
- Step 5 : Compute months= remaining day / 30
- Step 6 : Compute days left = remaining days % 30
- Step 7: Print years , months , days
- Step - 8 : STOP

#### Flowchart:



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Ex. No.: 3

### Prime Number

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

**Algorithm:**

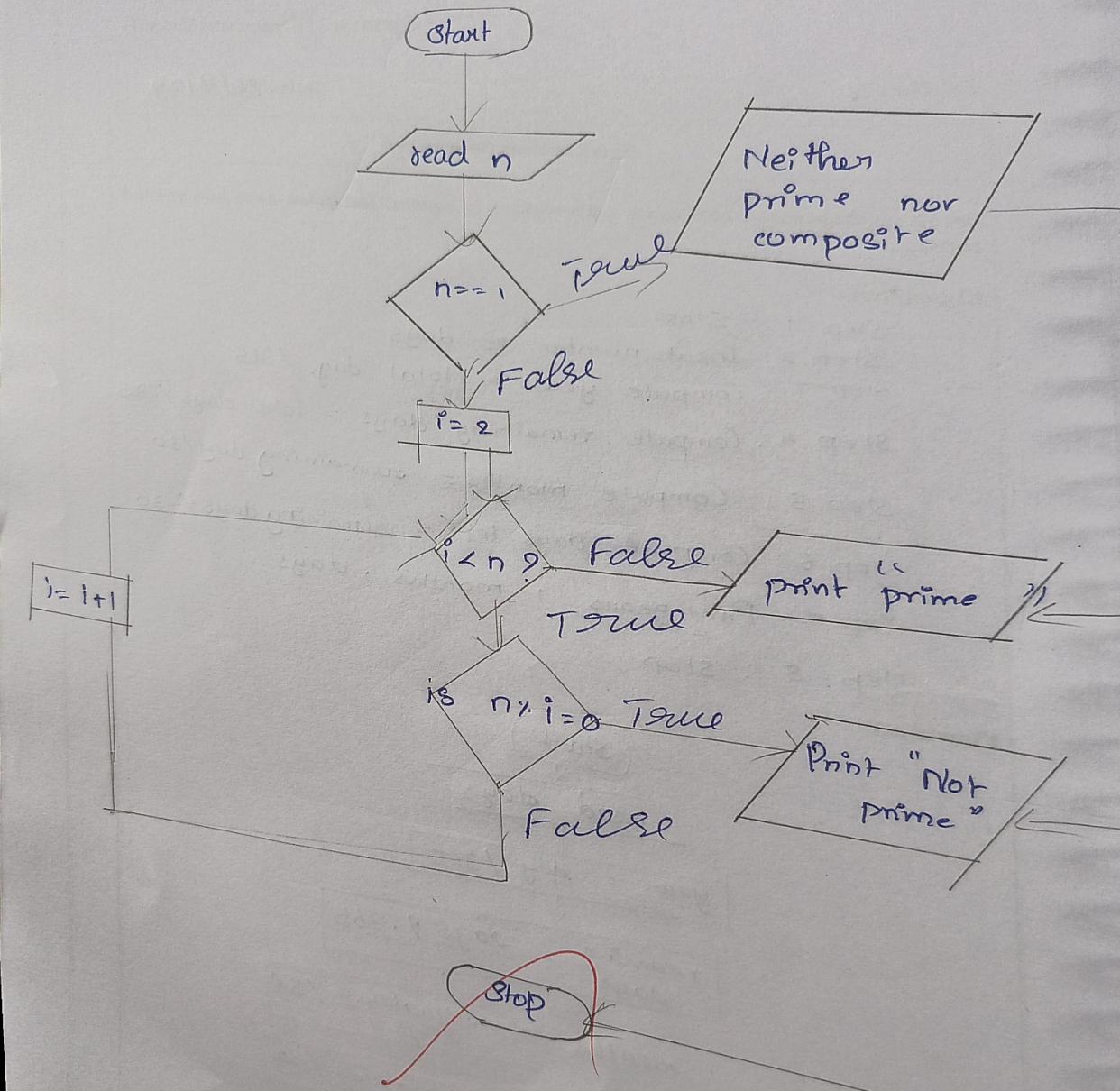
Step -01 : Start  
Step -02 : read n  
Step -03 : set f = 1  
Step -04 : If  $n=1$  Then  
                Print "n is not Prime Number"  
                go to step 8  
Step -05 : for  $i=2$  to  $n-1$   
Step -06 : If  $n \% i = 0$  Then set  $f = 1$   
                else goto step 5

**Flowchart:**

Step -07 : If  $f = 1$  Then  
                Print "n is not Prime numbers"  
                else  
                Print "n is prime numbers"  
Step -08 : Stop

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Ex. No.: 4

## Leap Year

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

## Algorithm:

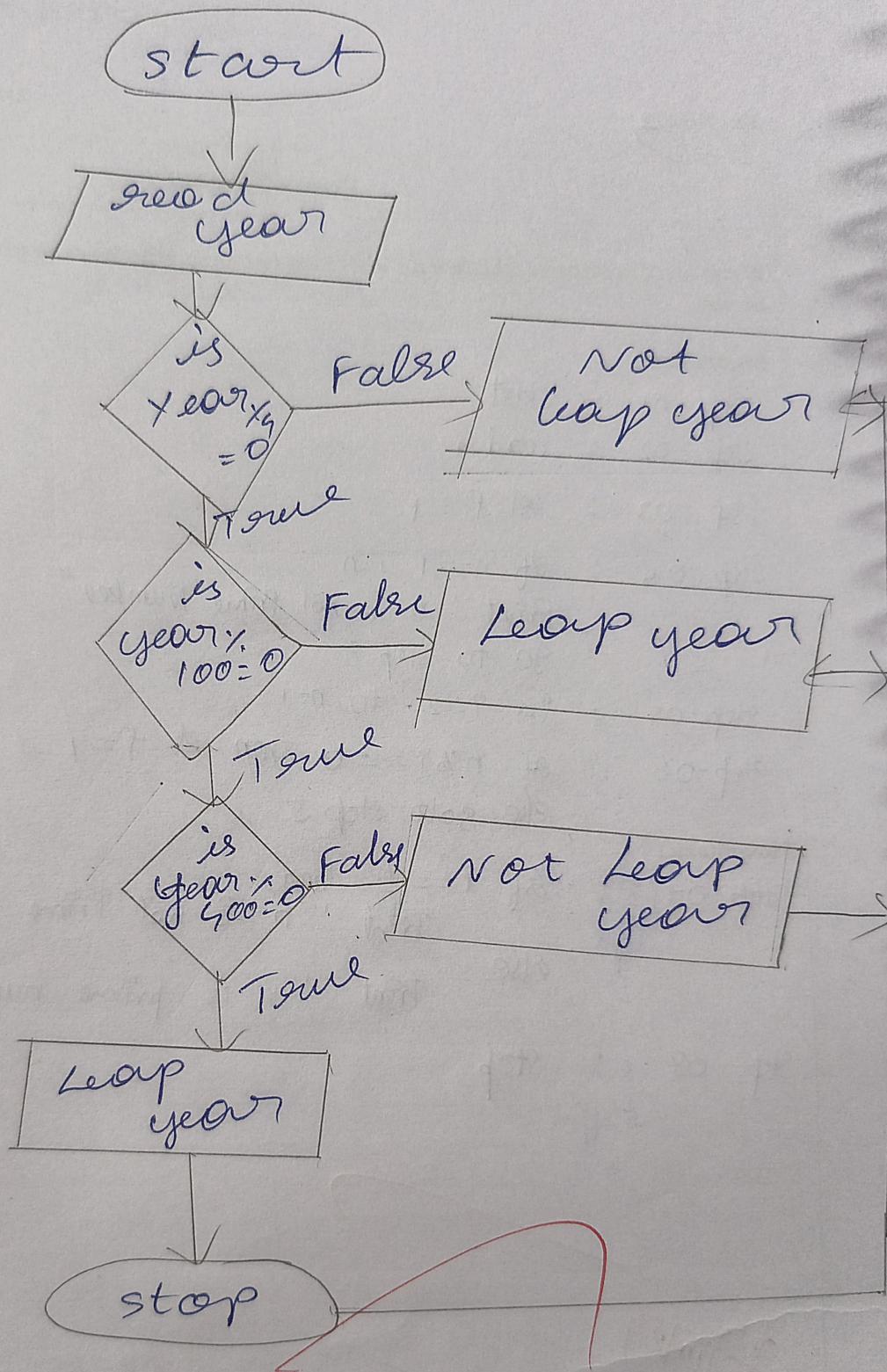
```

Step-01 : Start
Step-02 : Read year rem
Step-03 : rem = year % 4
Step-04 : If rem == 0
          print ("Leap Year")
Step-05 : else
          print ("not Leap Year")
Step-06 : Stop
    
```

## Flowchart:

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Ex. No.: 5

Date: 28/9/24

### Palindrome Number

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

#### Algorithm:

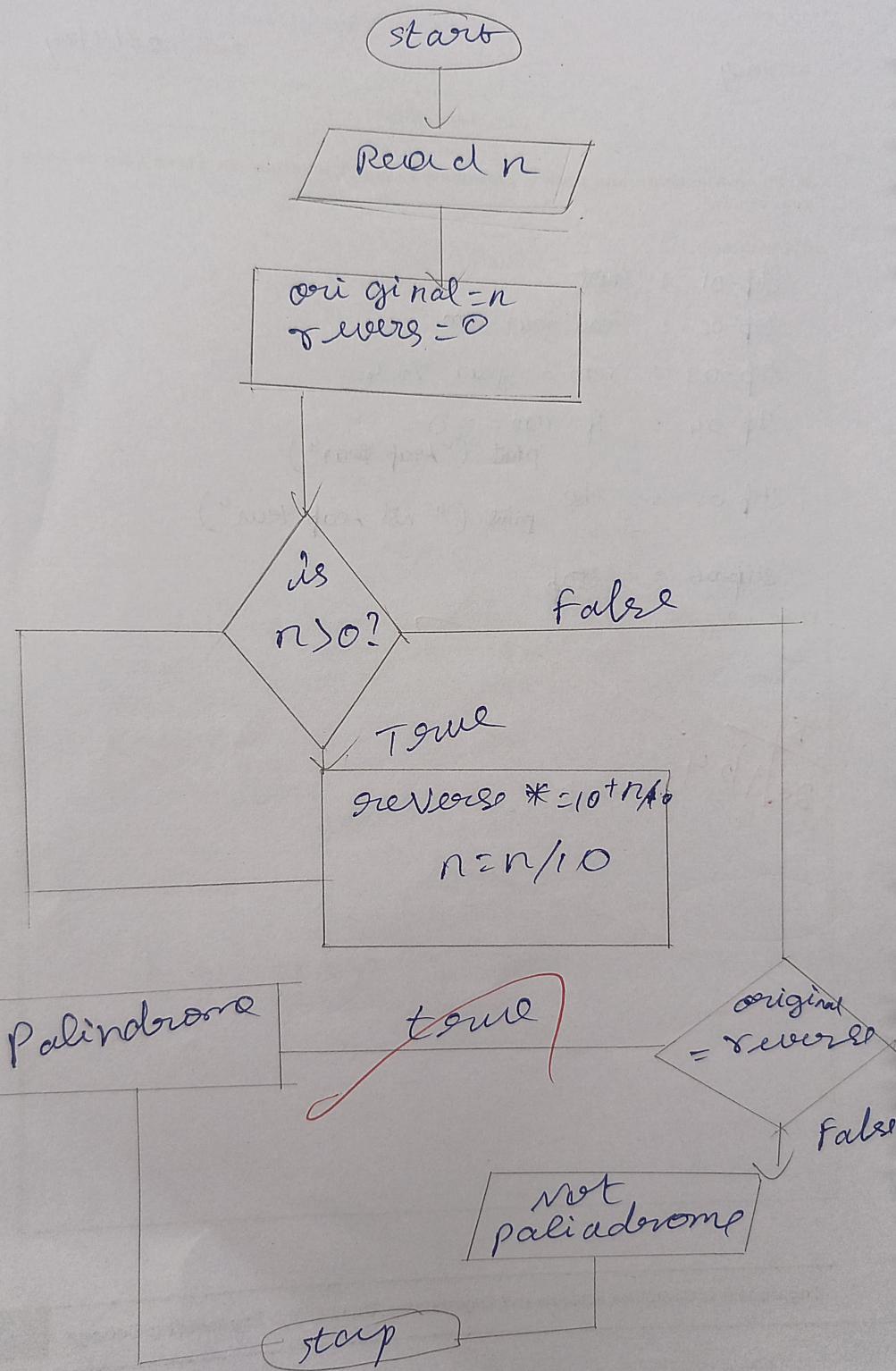
- Step -01 : Start
- Step -02 : read 'n' from user
- Step -03 : Step  $p=0$ ,  $a=n$
- Step -04 : Check whether  $n > 0$ , go to step 5 else go to step 7.
- Step -05 :  $P = (P \times 10) + (n \% 10)$
- Step -06 :  $n = n / 10$ , go to step 4

#### Flowchart:

- Step -07 : Check whether  $a == p$ , true go to step 08 else go to step 09
- Step -08 : Print "Palindrome" go to step 10
- Step -09 : Print "Not Palindrome".
- Step -10 : Stop

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Ex. No.: 6

Date: 28/9/24

**Sum of Digits**

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

**Algorithm:**

Step-01 : Start

Step-02 : get 'n' from the user

Step-03 : Initialize sum is equal to zero.

Step-04 : Check n&gt;0 true go to step 5 else go to step 6

Step-05 : sum = sum + (n % 10)

Step-06 : n = n / 10, go to step 4

**Flowchart:**

Step-07 : Print "sum"

Step-08 : stop

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