

Week 0

Roll no : 240801133

Name : Jeevana S M

Ex. No.: 1

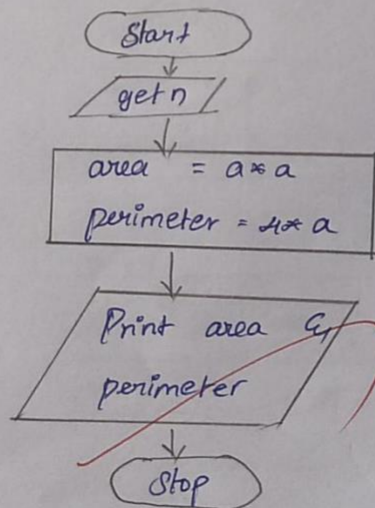
Date: 26/9/24

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:

Ex. No.: 2

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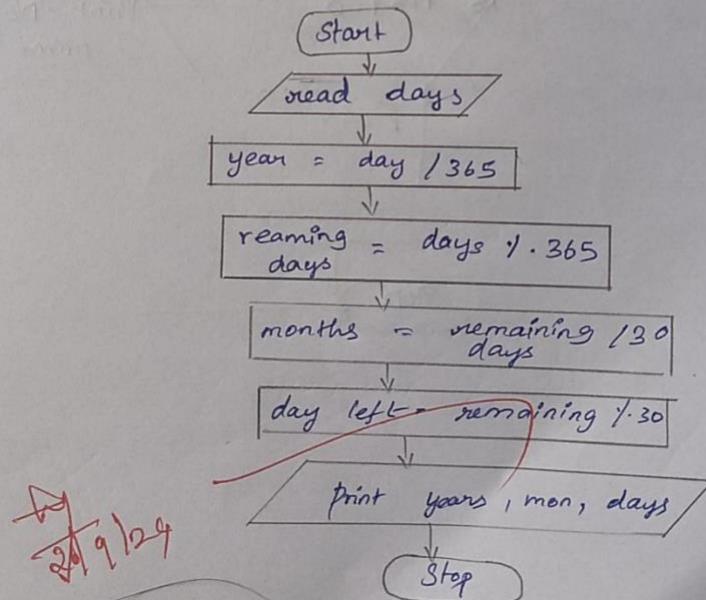
Days to Year Conversion

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:



Ex. No.: 3

Date: 26/9/24

Prime Number

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

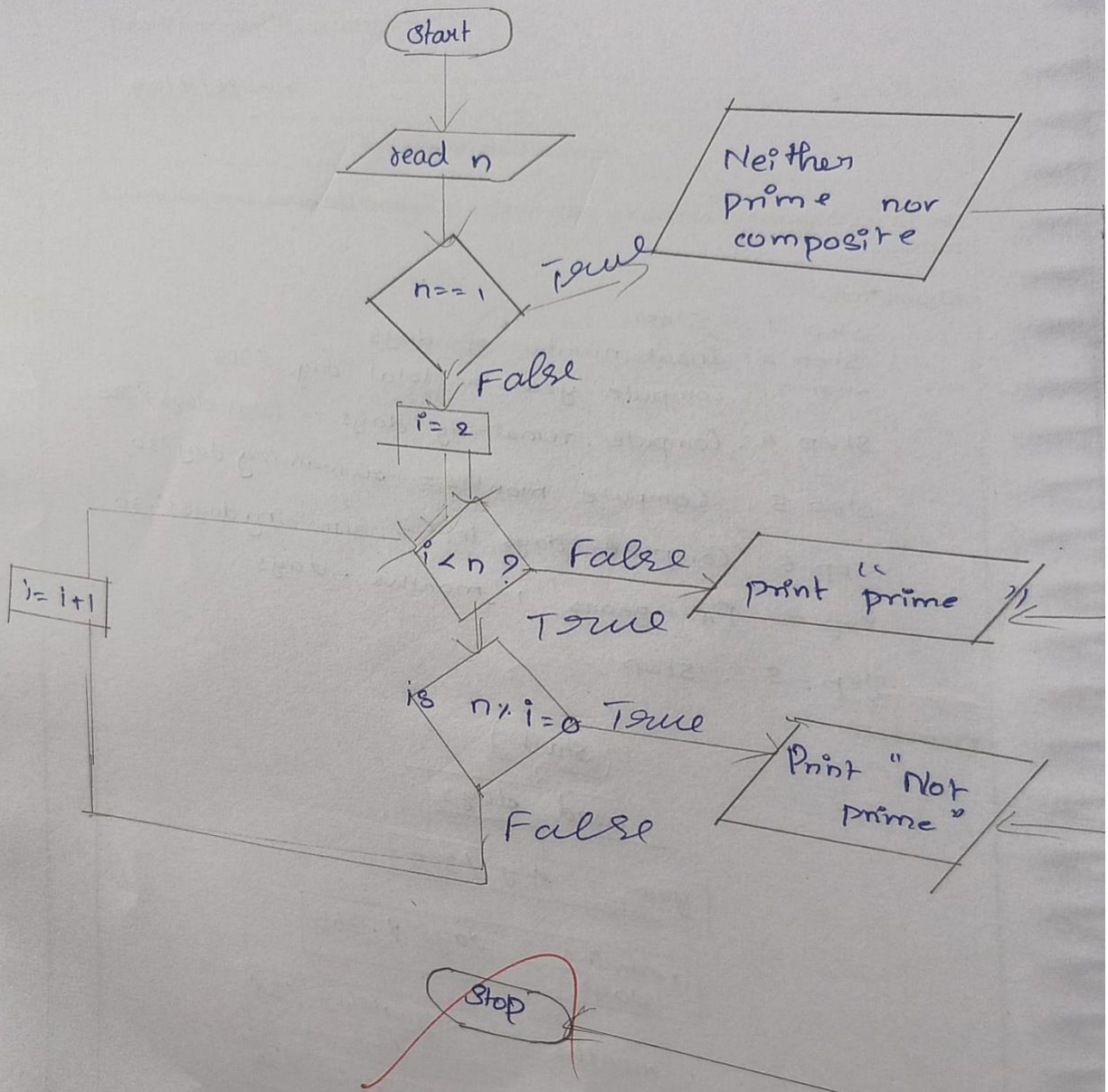
Algorithm:

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 number"
 else
 Print "n is prime number"
 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 your rem

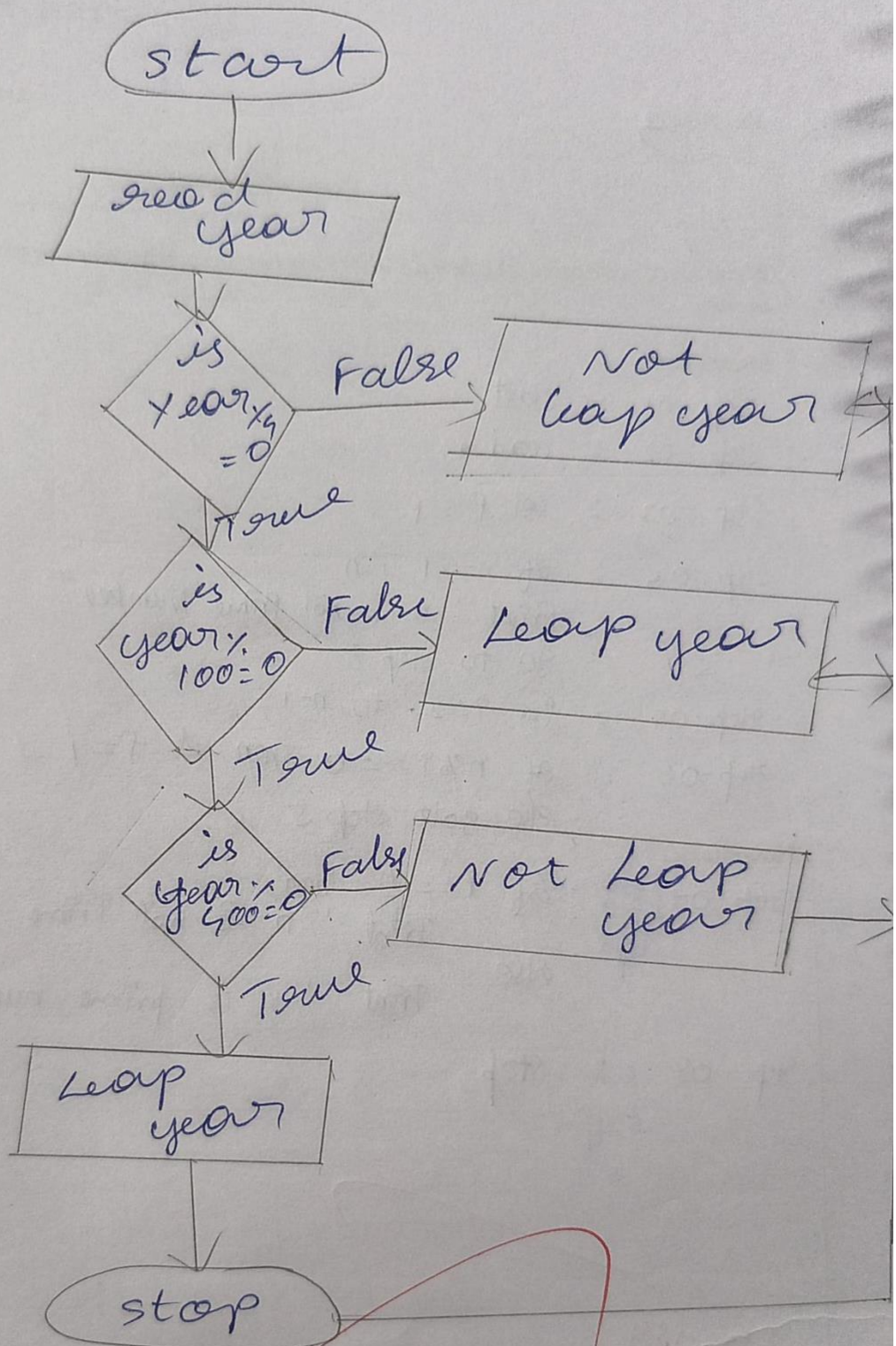
Step-03 : $\text{rem} = \text{year} \% 4$ Step-04 : If $\text{rem} == 0$
print ("Leap Year")

Step-05 : else print ("not Leap Year")

Step-06 : Stop

Flowchart:

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Ex. No.: 5

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Palindrome Number

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

Algorithm:

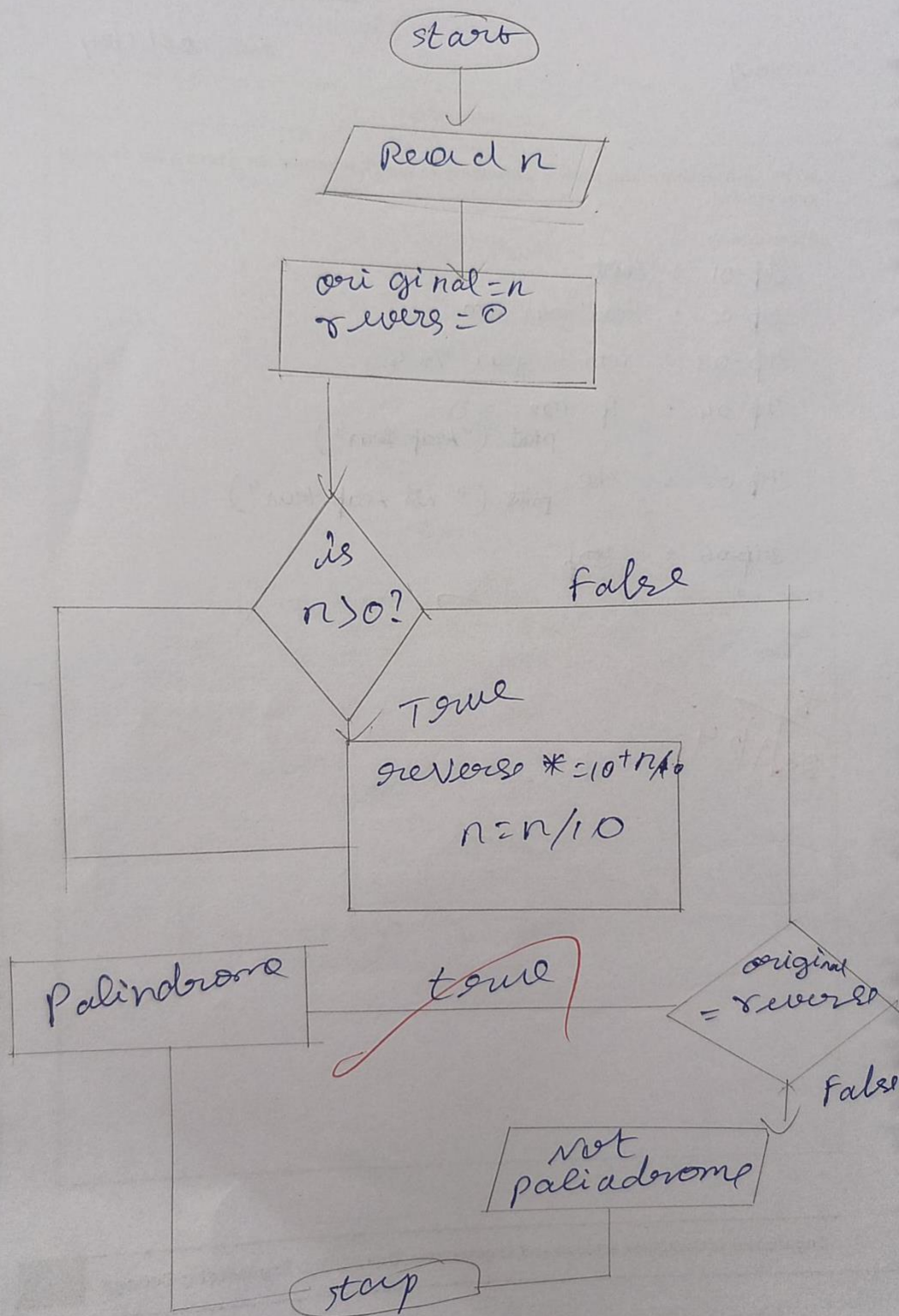
- Step-01 : Start
- Step-02 : read 'n' from user
- Step-03 : Step $p=0$, $a=n$
- Step-04 : Check whether $n > 0$, go to step 5 else go to step 7.
- Step-05 : $p = (p * 10) + (n \% 10)$
- Step-06 : $n = n / 10$, go to step 4

Flowchart:

- Step-07 : Check whether $a == p$, true go to step-08 else go to step 9
- 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 to zero.

Step-04 : Check $n > 0$ true go to step 5 else go to step 6Step-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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