

Week 0:

ROLL NO.:240801197

Name: Mathivanan.P

Ex. No.: 1

Date: 26/9/24

Calculate Area and Perimeter

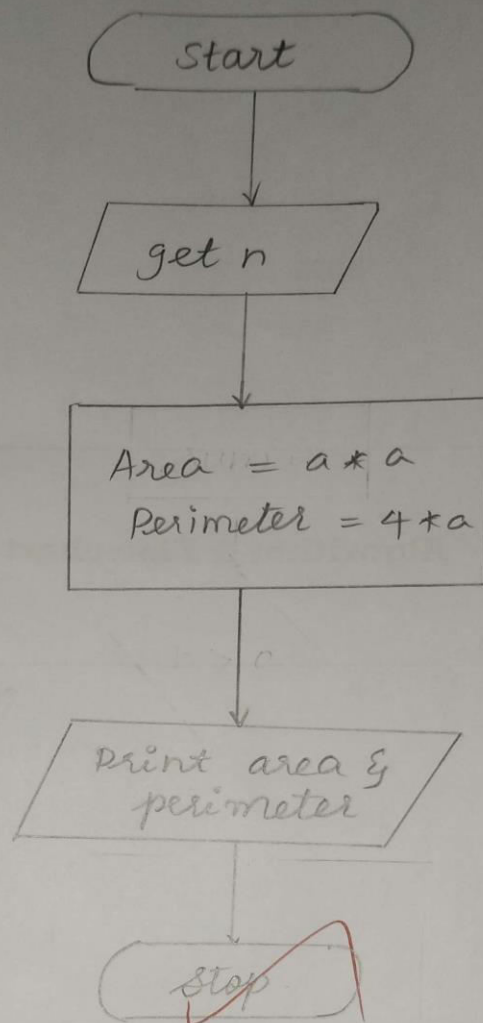
Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:

- step-1 : start
- step-2 : Read a
- step-3 : $\text{Area} = a * a$
- step-4 : $\text{Perimeter} = 4 * a$
- step-5 : Print Area & perimeter
- step-6 : stop.

Flowchart:

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Ex. No.: 2

Date: 26/9/24

Days to Year Conversion

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

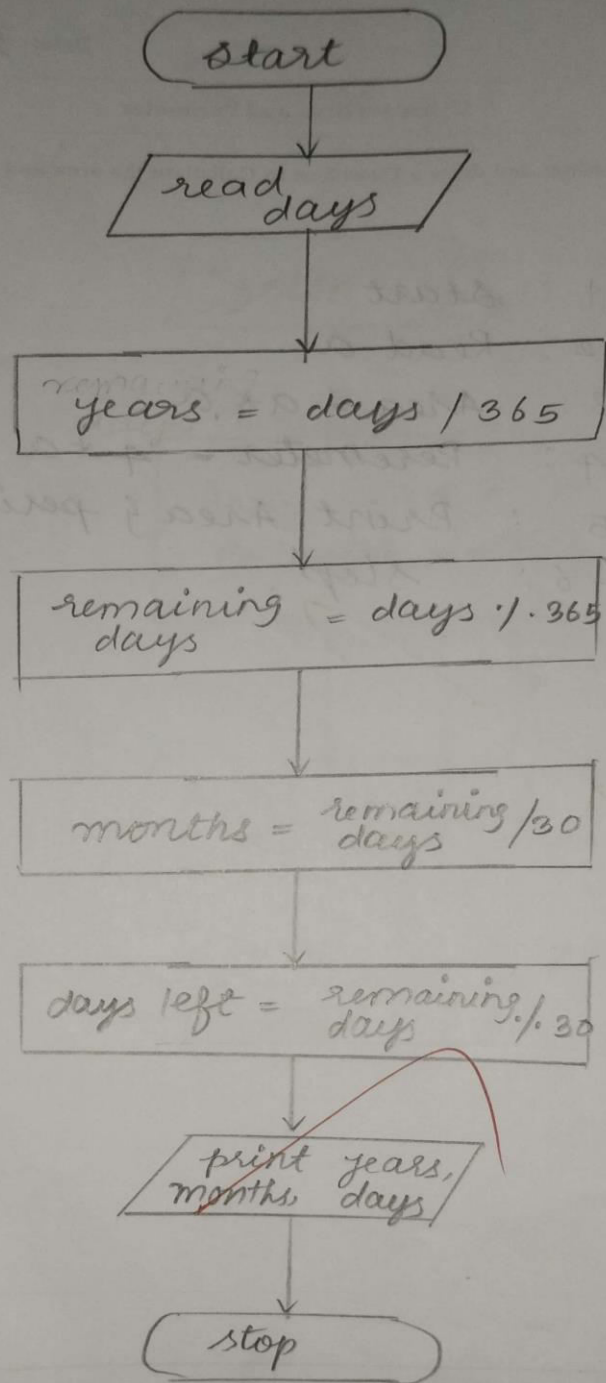
Algorithm:

- step-1: start
- step-2: Input number of days.
- step-3: compute years = $\frac{\text{total days}}{365}$
- step-4: compute remaining days = $\frac{\text{total days}}{365}$

Flowchart:

- step-5: compute months = $\frac{\text{remaining day}}{30}$
- step-6: compute days left = $\frac{\text{remaining days}}{30}$
- step-7:- Print years, months, days
- step-8:- stop.

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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.

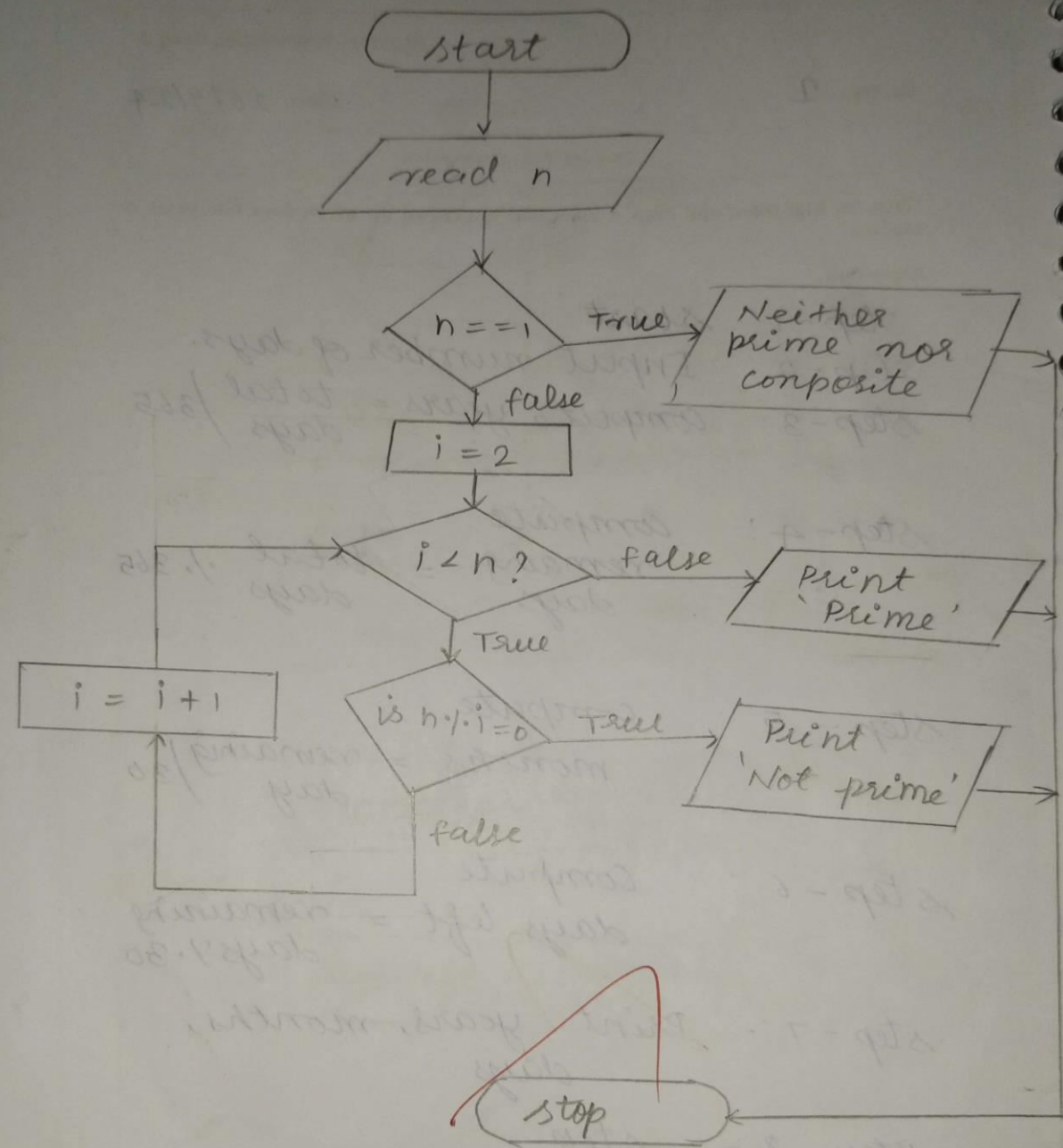
Algorithm:

step-1: start
 step-2: read n
 step-3: set $f = 1$
 step-4:- If ' n ' = 1 then
 print " n " is not prime
 number
 goto step 8

Flowchart:

step-5:- for $i = 2$ to $n - 1$
 step-6:- If $n \% i == 0$ then
 set $f = 0$ break
 else goto step 5
 step-7:- If $f == 0$ then
 Print (" n is not prime
 number")
 else
 Print " n is prime
 number"
 step-8: stop.

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Ex. No.: 4

Date: 23/9/24

Leap Year

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

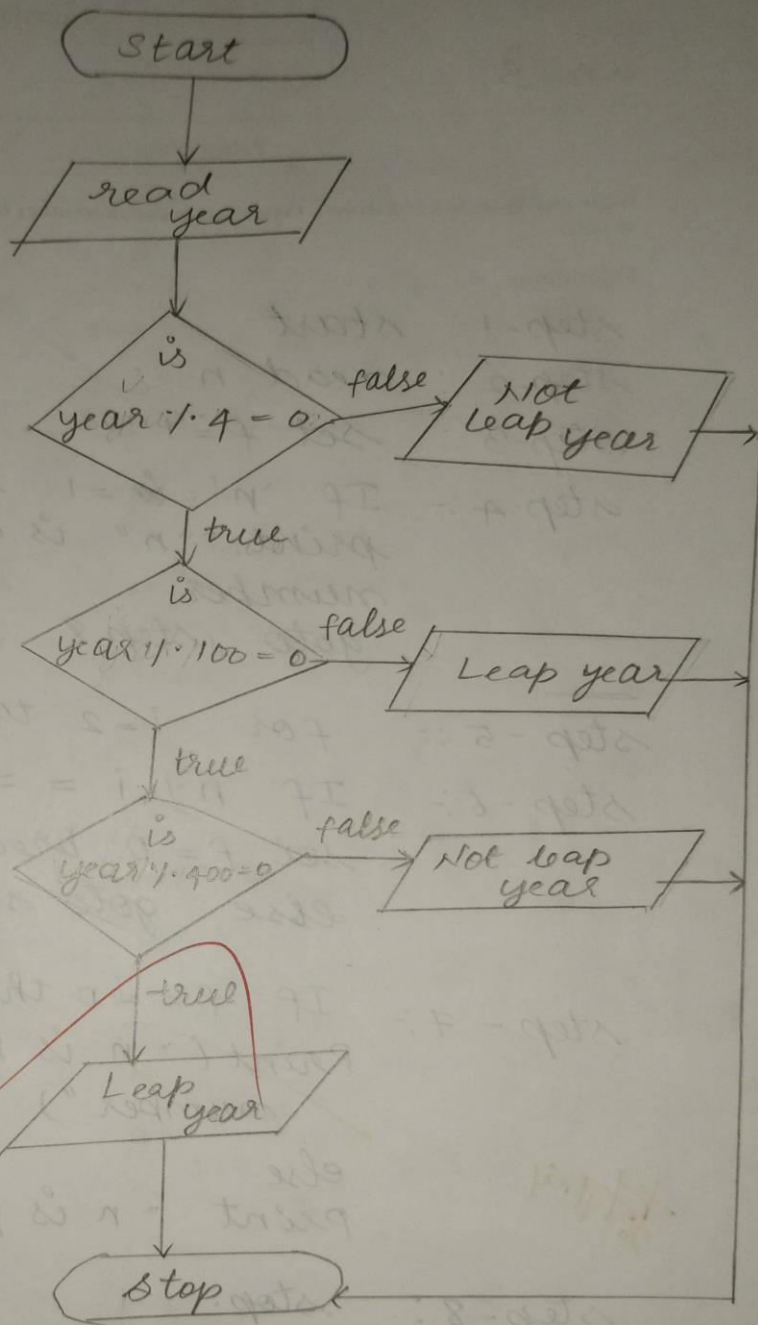
Algorithm:

step-1 : start
 step-2 : read year, rem1, rem2, rem3.
 step-3 : $rem1 = year \% 4$
 step-4 : If $rem1 == 0$
 step-5 : $rem2 = year \% 100$
 step-6 : If $rem2 == 0$ goto step 7 else
 print "Not Leap year"

Flowchart:

step-7 : $rem3 = year \% 400$
 step-8 :- If $rem3 == 0$
 print "Leap year"
 step-9 :- stop.

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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.

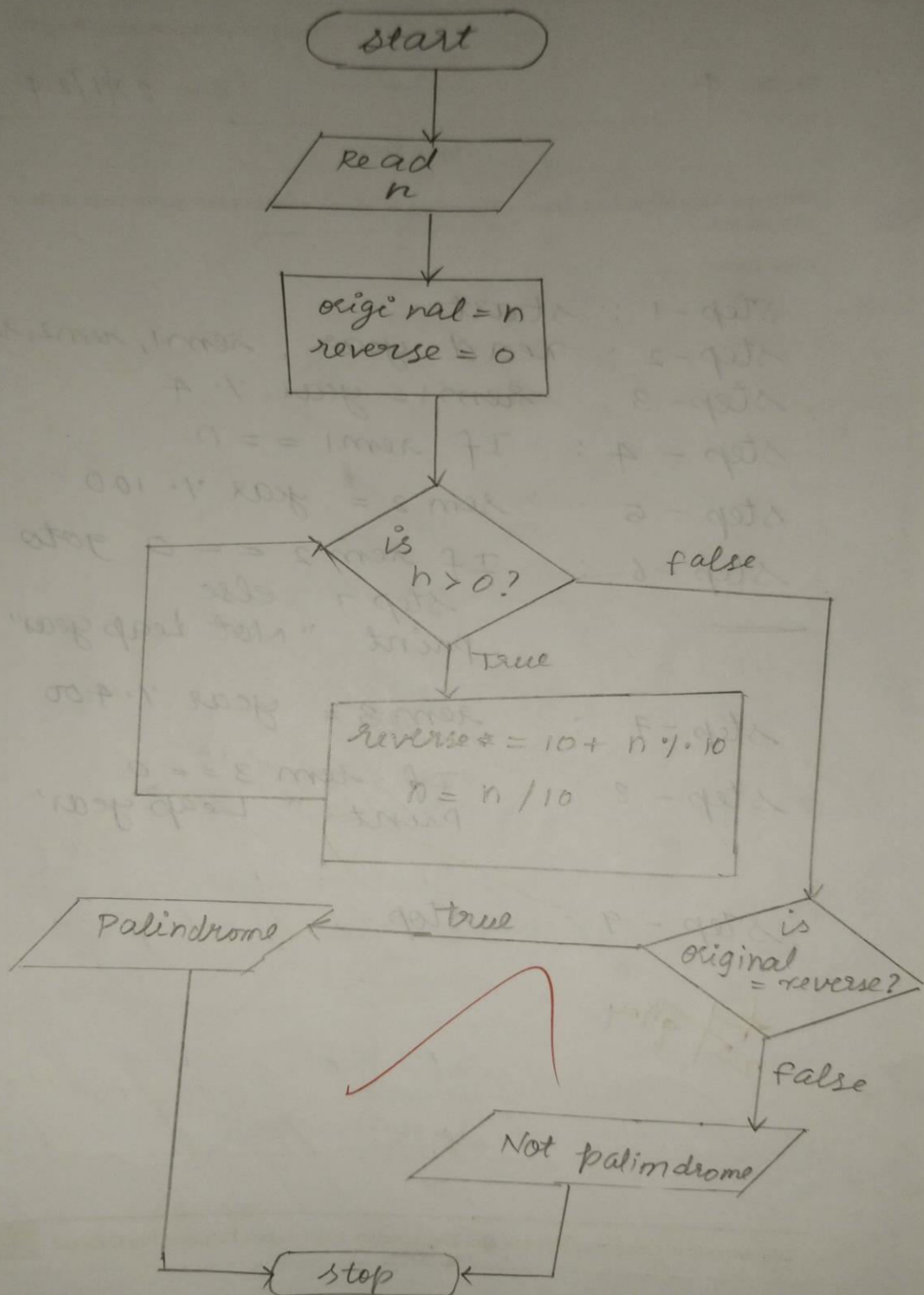
Algorithm:

step - 1: start
 step - 2: read n
 step - 3: initialize elements
 original = n, reversed = 0
 step - 4: while n > 0
 reverse * = 10 + n % 10
 update n = n / 10 ~~goto~~

Flowchart:

step - 5: If original == reverse
 Print "palindrome"
 step - 6: else
 Print "Not palindrome"
 step - 7: 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 - 1: start
step - 2: read n
step - 3: initialize sum = 0
step - 4: while n > 0 if
true goto step 5
else goto step 7

Flowchart:

step - 5: sum + = n % 10
step - 6: n = n / 10 goto
step - 4
step - 7: print "sum"
step - 8: stop.

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