

Week 0

Roll no : 240801174

Name : Lavanya S

Roll No: 240801174

NAME: LAVANYA S

GE23131 - Programming Using C

Ex. No.: 1

Date: 26/9/24

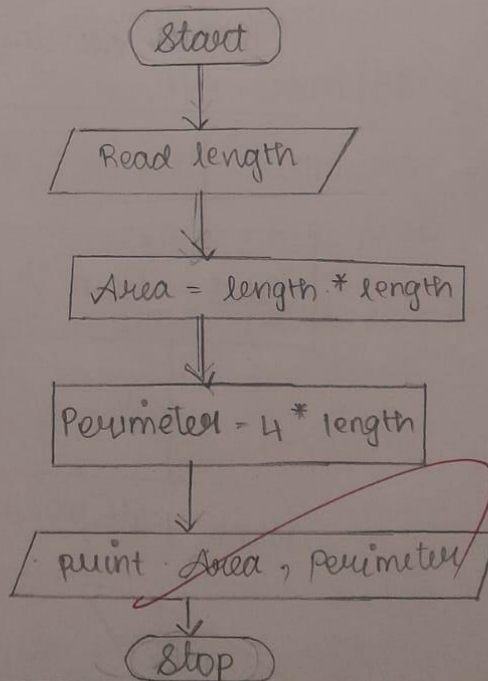
Calculate Area and Perimeter

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

Algorithm:

- STEP 1 : Start
- STEP 2 : Read length.
- STEP 3 : calculate
 $\text{Area} = \text{length} * \text{length}$
- STEP 4 : calculate
 $\text{Perimeter} = 4 * \text{length}$
- STEP 5 : Stop

Flowchart:



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Ex. No.: 1

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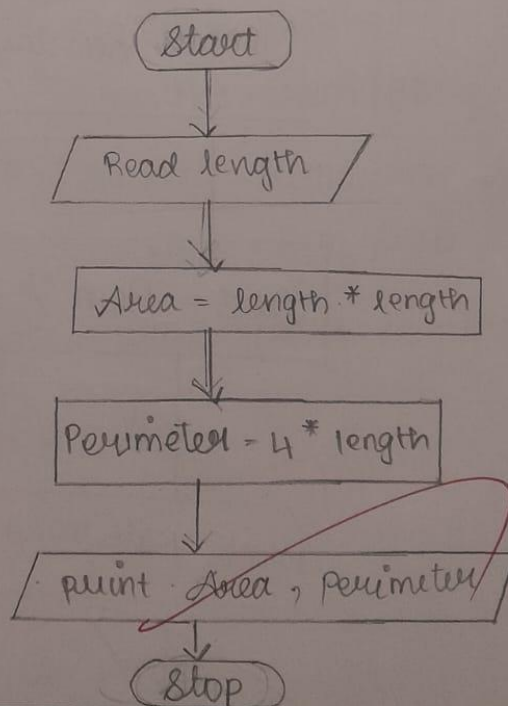
Calculate Area and Perimeter

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

Algorithm:

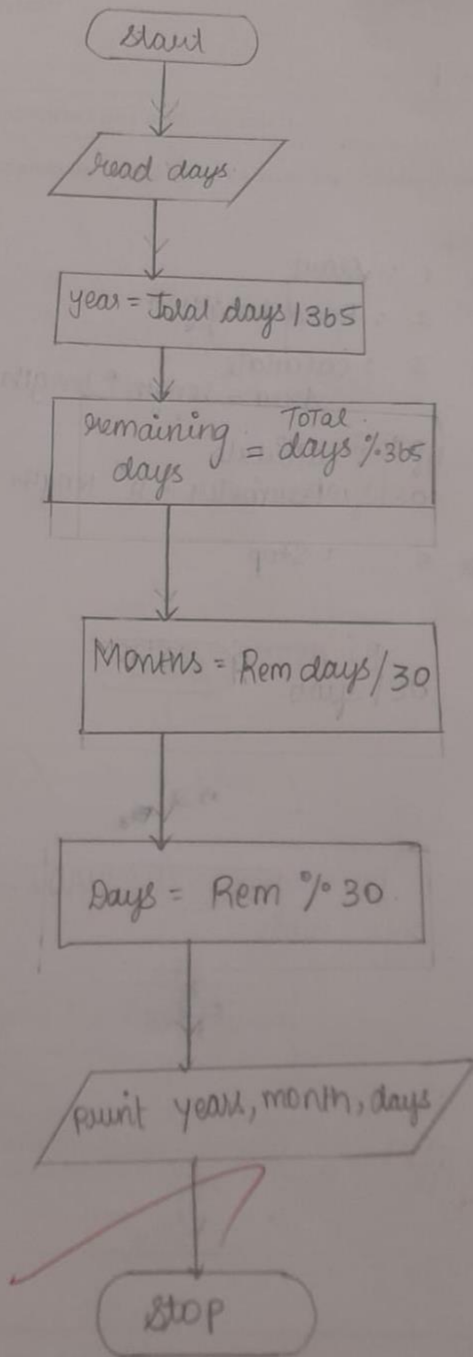
- STEP 1 : Start
- STEP 2 : Read length.
- STEP 3 : calculate
 $\text{Area} = \text{length} * \text{length}$
- STEP 4 : calculate
 $\text{Perimeter} = 4 * \text{length}$
- STEP 5 : Stop

Flowchart:



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FLOW CHART



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Roll No: 240801114

NAME: SAVANYA S

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Ex. No.: 3

Date: 26/9/24

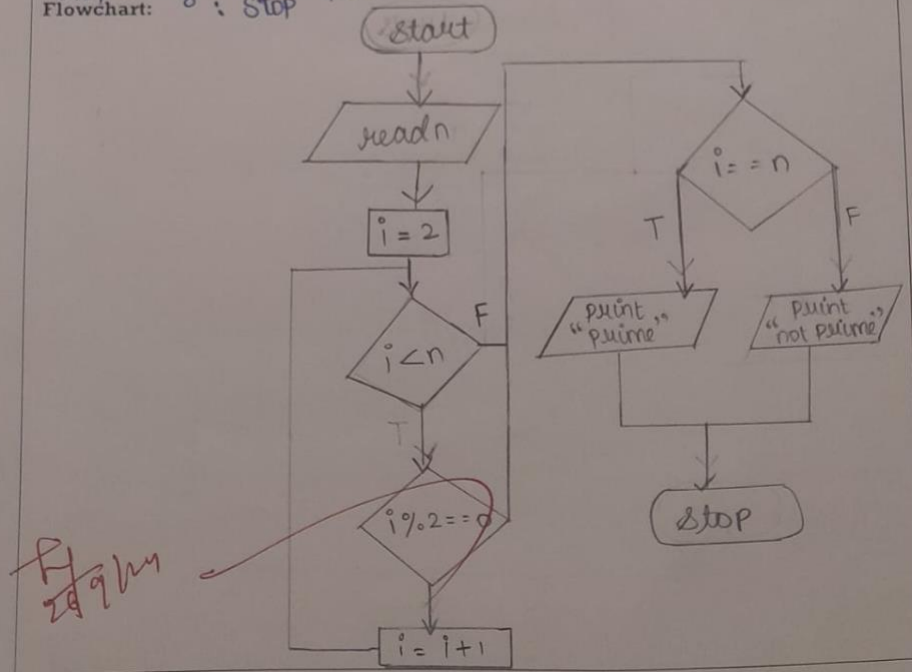
Prime Number

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 : If $i=2$ and $i \leq n$, go to step 7
 STEP 4 : $i \% 2 == 0$, go to step 7
 STEP 5 : $i = n$
 STEP 6 : $i = i + 1$, go to step 3
 STEP 7 : If $i = n$, print "not prime"
 STEP 8 : Stop
 else, print "prime"

Flowchart:



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Roll No : 240801174

NAME : LAVANYA S

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Ex. No.: 4

Date: 28/9/24

Leap Year

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

Algorithm:

STEP 1 : start

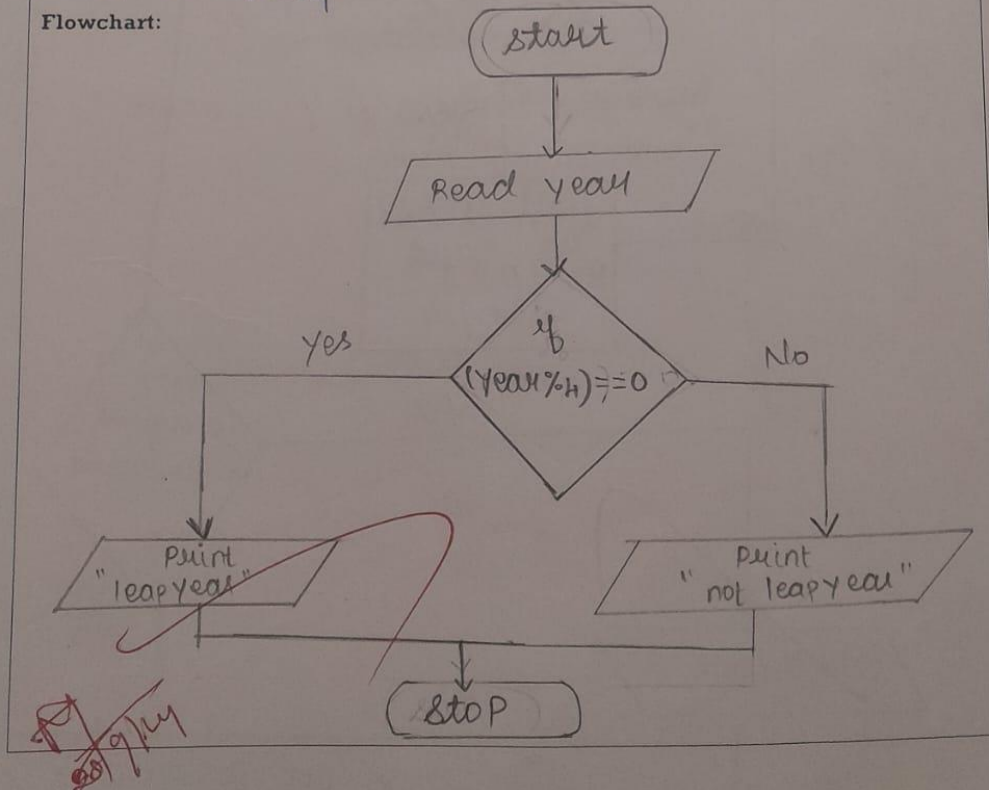
STEP 2 : Read year

STEP 3 : $Rem = Year \% 4$

STEP 4 : $\text{if } (Rem == 0) \text{ then}$
Print "leap year"
else
Print "not leap year"

STEP 5 : stop

Flowchart:



Roll No: 24080174

Name: LAVANYA S

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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 the number n

STEP 3 : Initialize

Set original = n & reversed = 0

STEP 4 : while $n > 0$

- Set digit = $n \bmod 10$

- update reversed = $\text{reversed} \times 10 + \text{digit}$

- update $n = n \div 10$

Flowchart:

STEP 5 : if original = reversed

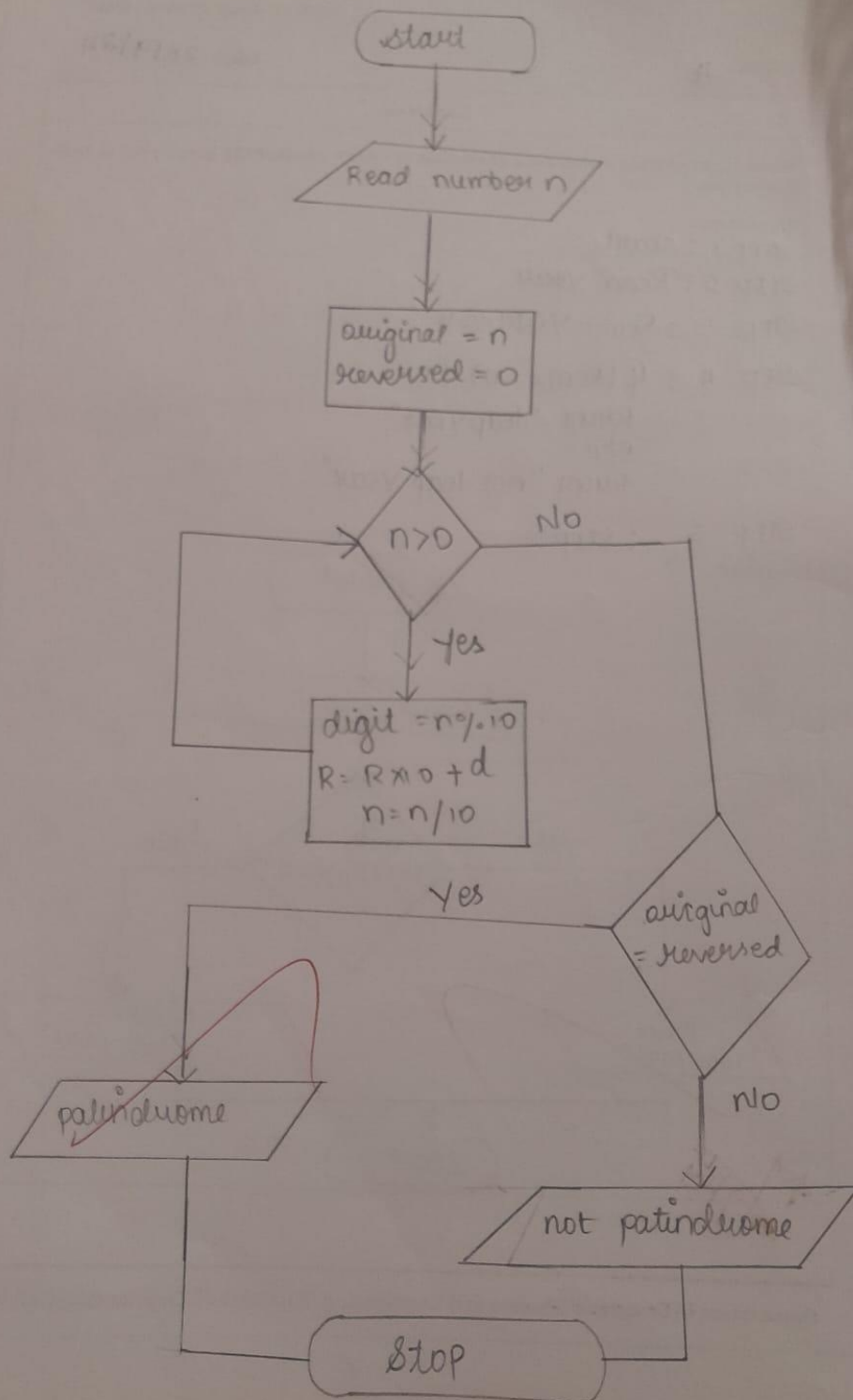
Print "palindrome"

else
Print "not palindrome"

STEP 6 : Stop

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FLOW CHART



Roll No: 24080174

NAME: BHAVANYA'S

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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 : Input the number (n)

STEP 3 : Initialize
 $Sum = 0$

STEP 4 : Repeat the following step while
n is greater than 0

- Extract the last digit of n :
 $digit = n \% 10$

- Add the digits to Sum :
 $Sum = Sum + digit$

- Remove the last digit +
 $n = n // 10$

Flowchart:

STEP 5 : output the Sum

STEP 6 : Stop

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FLOW CHART

