# RAJALAKSHMI ENGINEERING COLLEGE

An Autonomous Institution, Affiliated to Anna University Rajalakshmi Nagar, Thandalam - 602 105

Programming Using C

WEEK 0

2024-2025

By

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Date: 24 10 12024

# 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 length in 'l' and breadth in 'b'

step: 3: Solve p = 2(l+b) and a = l \* b

step: 4: Prient perimeter or and area a

step: 5: stop

Flowchart:

-3

Date: 22/10/2024

# Days to Year Conversion

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

# Algorithm:

Step: 1: Start

step: 2: Input number of days in rodays

as integer

sten: 3: Solve years = nodays /365 and months = (nodays % 365)/30

step: 4: Point years and months

step: 5: Stop

Flowchart:

mon = (nodays % 365)/30

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Date: 24/10/2024

#### **Prime Number**

Write an Algorithm and draw a Flowchart to check whether the given number is Prime

## Algorithm:

Step: 1: start

step: 2: Input n, dio = 2

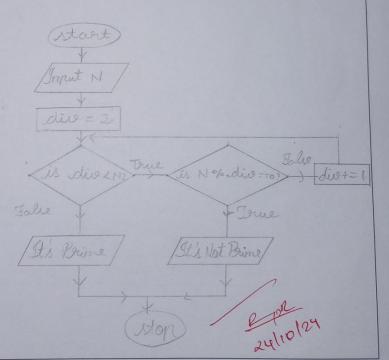
step: 3: check if dio Ln, else It's Prime

step: 4: check if r % dio ==0, else invoase dio

Step: 5: Display It's Not Prime

step: 6: Stop

#### Flowchart:



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## Leap Year

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

Algorithm:

Sten: 1: start

step: 2: Input the year in you

step: 3: solve lp= y2 % 4

Step: A: Diglay Leap year In, if In == 0, else, not Leap year

Flowchart:

Dirylay: It's not bon year

10

Date: 24/10/2024

#### Palindrome Number

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

### Algorithm:

sten: 1: start

step: 2: Input num as integer

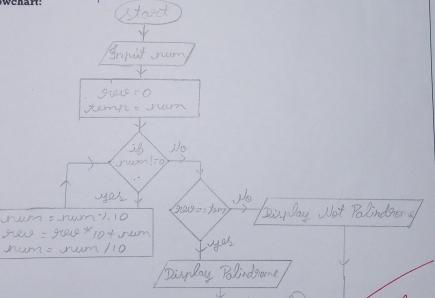
step: 3: Declare new=o and temp= num

step: 4: when num!=0, else cleck new == temp if not then display Not Palindrome

step: 5: Solve run = run %10; rev= 9ev x10+ run;

Ster: 6: check if reve = temp then display

Step: 7: Stop



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Date: 24/10/2024

## **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 in

step: 3: Declare sum =0

step: 4: whech if in >0, else point sum

step: 5: solve sum=sum+nº/010 and n=n/10
then repeat step 4

Sten: 6: ston

