Ex. No.: 01

Date: 25/09/2024

# **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 &

STEP 3:

Area = 2 \* 2

STEP4:

Print Area

STEP 5:

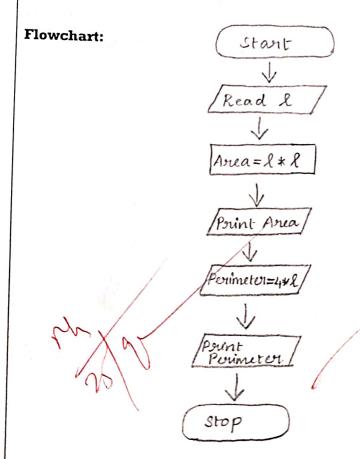
Perimeter = 4 \* 8

STEP 6:

Print Perimeter

STEP7:

Stop



Ex. No.: 02

Date: 25/09/2024

## Days to Year Conversion

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

Algorithm:

STEP1: Start

STEP 2! Input no of days

STEP3: calculate the no of years

year = days / 365

STEP 4: calculate remaining days after calculating years

remaining days = days 1/. 365

Calculate no of month STEPS:

months = remaining days/30

calculate remaining days after calculating month STEP6:

days - left = Remaining day 1. 30

STEP7: Output the years, months and days - left

Flowchart: STEP 8: End

> (Stout) total no: of day = days /365 nemaining days = days months remaining days /30

days left eremaining days 1/30

Stop

Ex. No.: 63

Date: 25/10/2024

#### **Prime Number**

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

### Algorithm:

Take num as input STEP 1:

STEP2: Emitiation a variable temp 100

STEP3: Iterate a 'for' loop from 2 to num/2

STEP4: If num is divisible by loop, then inverent temp.

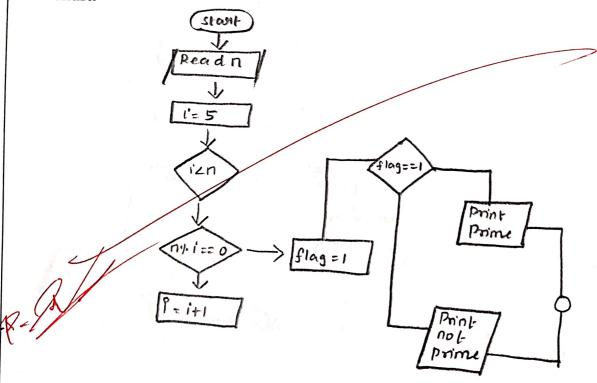
STEPS: If temp is equal to 0, return "Num in prime"

else

return "Num is not prime"

STEP6: End

#### Flowchart:



Ex. No.: OG

Date: 25/09/2024

### Leap Year

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

#### Algorithm:

STEP1:

Start

STEP2:

Declare year

STEP3:

Read year

STEP4:

Check if year 1/4 = 0

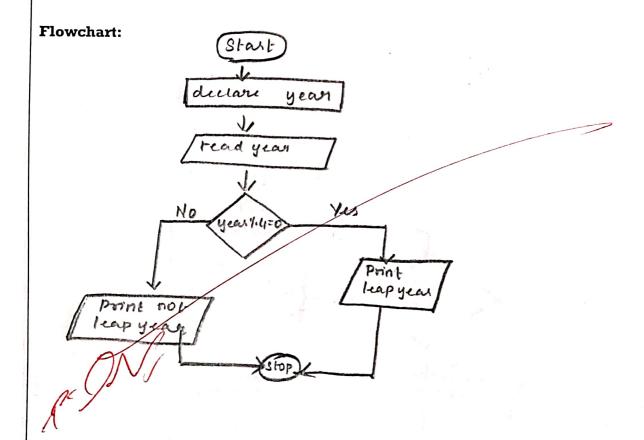
STEPS:

Print "leap year"

STEPG:

Print " Not leap year"

Stop



Ex. No.: 05

Date: 25/09/2024

#### Palindrome Number

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

## Algorithm:

STEP1:

Start

STEP2 !

Read the number 1

STEP3:

Initiative: set original = n & reversed = 0

STEP4:

while n>0

Set digit = n mod 10

update runned = runned x 10+ digit

update n=n +10

STEP 5:

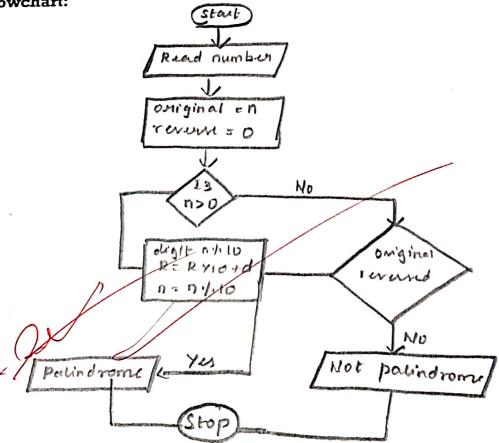
if original = reversed

Print " Paundrome"

STEP6:

End

Flowchart:



Ex. No.: 06

Date: 25/09/2024

### Sum of Digits

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

Algorithm:

STEPI: Start

STEP2! Input the number (n)

STEP3: Initialise sum =0

STEP4! Repeat following steps while n is quater than on to

- Entract least digit of n digit = n 1,10

- Add digit to sum sum sum sum + digit
- Remove last digit n: n = n/10

STEPS: O/P the sum

STEPG: End

Flowchart:

