Ex. No .: I

Date: 27/9/24

### Calculate Area and Perimeter

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

# Algorithm:

Step 1: Stoot

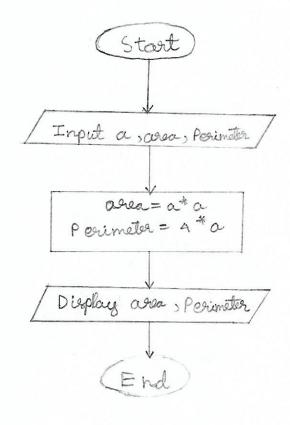
Step 2: input a area, Perimeter

Step 3: Asea of the Square = a \* a

Step 4: Perimeter of the Square = 4 \* a

Step 5: Display the Asea and perimeter of the square

Step 6: end



Ex. No.:

Date: 27 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

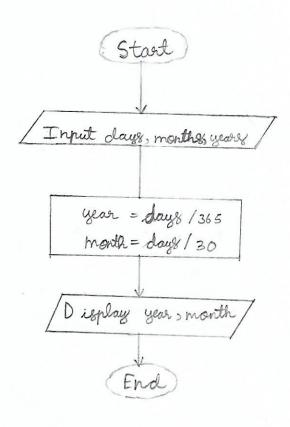
Step 2: input days, months, years

Step 3: calculate year = days/365

Step 4: Calculate month = days 130

Step 5: Display month and years.

Step 6: End



Ex. No.: BIT

Date: 3 10/24

### **Prime Number**

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

## Algorithm:

Step1: Start

step 2: input n

Step 3: Set i=1, count =0

Step 4: If ic=n, if true go to step 5, else go to step 8

Step 5: check the condition n'i i == 0; if there then go to step 6,

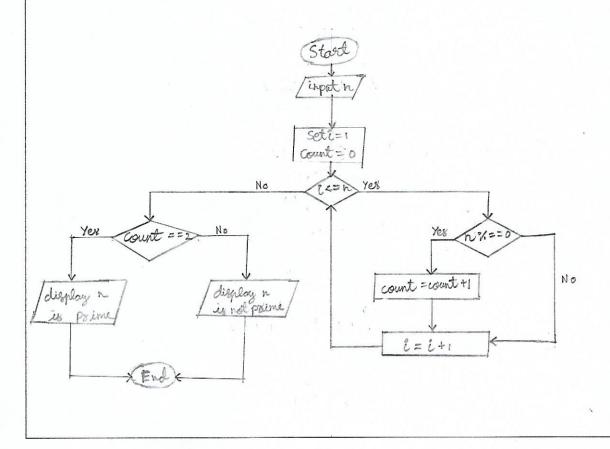
else go to step?

Step 6: Set count = count +1

Step 7: i=i+1 go to step 4

step &: Check count , if count = 2, display prime number else display it as

step q: End Flowchart:



# Leap Year

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

# Algorithm:

Step 1: start

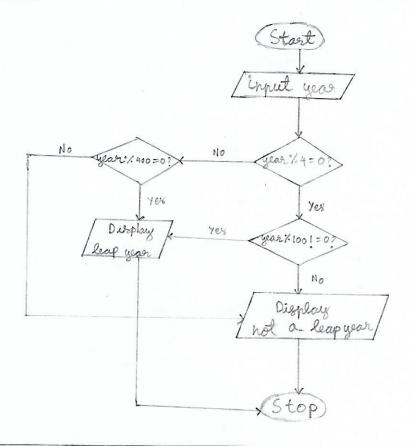
Step 2: int year

Step 3: To calculate leapyear or not ley formula Ly= Y-1. 4==0
if Ly=0 leapyear and Y1. 100 1=0 of year 1. 400=0
go to Step 5

Step 4: Else not a leap year

Step 5: Display leap year

Step 6: Stop



Ex. No.:

Date: 3 10 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 input number from the user

Step 3. Peclore and intialize the variable reverse and assign input to the temp yariable temp Num- Num

Step4: Start the while loop until num! = 0 becomes balse.

· num = num %. 10

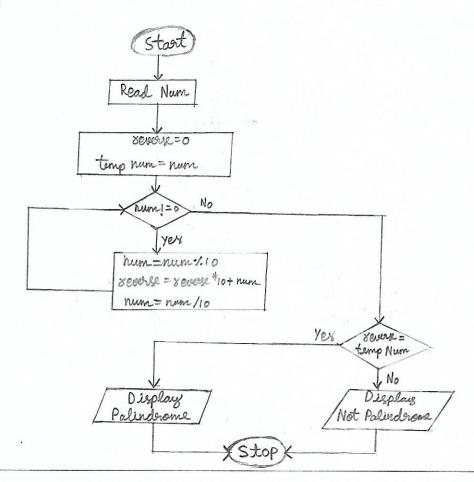
. reverse = reverse \$ 10 + num

Step 5: check if roverce == temp Num

Step 6: It it's true then display the number is a palindrome

Step 7: If not display the number is Not a Palindrome

Step &: Stop
Flowchart:



Ex. No.: VI

Date: 3 10 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: Oret the Number

Step 3: Construct a variable to hold the total and intelling it too

Step 4: Repeat Steps 2 and 3 until the result is not o

Step 5: Divide the Number by to to obtain the rightmost digit using the remaining "Percent "operator, then add it to the total.

Step 6: use the 1/2 operator to divide the integer by 10 to climinate the last digit on the right

Step 7: pisplay the total

Step s: Stop

