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: (alculate Length * Length

Step 4: (alculate

Peri = 4" Length

Step 5: Print "onea, Peri"

Step 6 : Stop

Flowchart:

Ex. No.:

Date: 26 9 24

Days to Year Conversion

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

Algorithm:

Flowchart:

Ex. No .: \\\

Date: 3 10 24

Prime Number

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

Algorithm: Steps : Steps Step 2: Input any natural No. "" Step 3: Initialize i=1, (ount=0. Step 4: It ic=N then go to Step selse go to Step 8. Steps: It Nii=o, then go to Step 6 else go to Step 7.

Sten 6 : Count = count +1

Step 7: i=i+1 and go to step 4. Step 8: It (ount == 2, then display "Prime", else

Step9: Stop

Flowchart:

Ex. No.: V

Date: 3/10/24

Leap Year

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

Algorithm:

Step 1 : Stoot

Step 2 : Input year

step3 : If (year 7.4 == 0 AND year y.100!=0) OR

(Year 1-400 == 0) then go to step 4 else go

to step 5.

Step 4 : Display "Lean year"

Steps: Display "Not a leap xear"

Step 6: Stop

Flowchart:

Ex. No.: N

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:

Step1 : Stout

Step 2 : Input num

Steps: Declara and initialize the Variable rounds and

assign input to a temp Voriable temp Num num

Step4 : Stoot the while loop until num! = 0 becomes talse.

* Mem = num +10

mert of & extense = extense.

Stens: Check it neverse == temp Num

Step 6: It it is true then display "Palindrome "else display "Not a Palindrome".

Step 7: Step Flowchart: Hem = num -/ 10 nove the _ rounder tother num = num/10

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 : Gret the Number

Step 2: Construct a variable to hold the total and

initialize it to

Steps : Repeat Step 283 until the result is not o.

Step4: Divide the number by 10 to obtain the night most digit using the remaining percent operator then add to be total.

Stens: Use the / operator to divide the integer by 10 to eliminate the last digit on the right stens: Display the sum (total)

Step 7: Stop Flowchart:

