Ex. No.: \

Date: 22/10/24

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 the value a as side of Square.

Steps: Azata.

Stepy: print A as Area of square

Step 5: P= 40

Step 6: print p as perimeter of Square

Step 7's Stop.

Flowchart:

Short Streeth Rength Length Point "Assea" (4" Length)

Paint "perimeter!

Paint "perimeter!

PpR

Date: 22/10/24

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: Read the value a as no of days.

Step s: 4= 0/365

Step 4: print y as no of years

Step 5: M= (ax365) 30

Step 6: Print M as no of months.

Step 71. Stop.

Flowchart:

Stoph value of no. of days ss years = no. of days ss Print "years" Print "Months" Stop)

12 pl

Date: 22/10/24

Prime Number

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

Algorithm:

Step 1: Stant

Step 2: bjet an value & assign it to variable N.

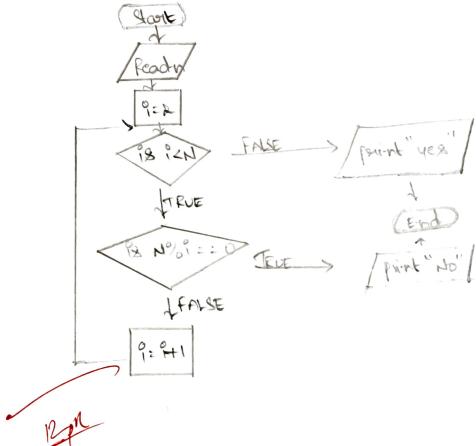
Steps: If N=0(0x)1, print Non-prime number.

Step 4: elif if his only divisible by itself, where No i =0

Step 5: Print N is prime number.

Stepb: Stop.

Flowchart:



22/10/24 Date:

Leap Year

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

Algorithm: Step 1: Stoot

Steps: Read the value, year.

Steps: 24 (year 1/4 =0 and year 1/100/20) of

year >. 1400 =0, then

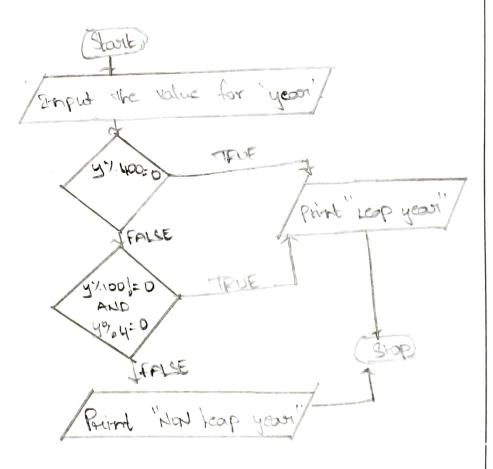
Stepy: print "teap year".

Steps: else:

Step 6: print "NON Leap year"

Step7: Stop

Flowchart:



Date: 2110/24

Palindrome Number

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

Algorithm:

Step1: Start

steps: Read the value, n.

Steps: create empty variable 9120, 520.

Stepy: Start the while loop after checking whether (+1:0). Et n=0 exit the loop.

Steps: Loop with following operations

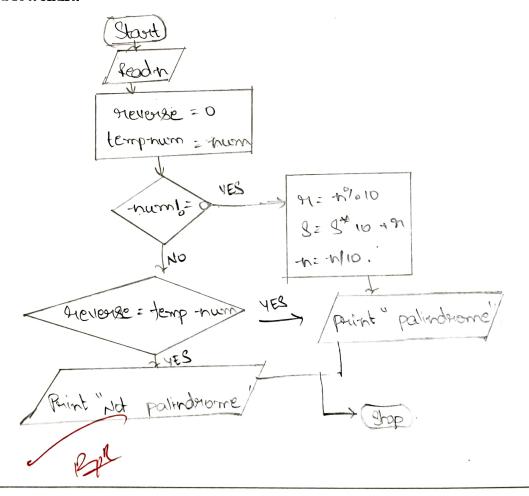
91 = 10 NO

9= 5 10+91

to Wio.

Step 6: If SET print the number is palindrome, else stops: display not a palindrome number.

Flowchart:



Date: 22/10/24

Sum of Digits

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

Algorithm:

Step 1: Start

Steps: Read a Malue, N.

Step 8: Coneate a Variable Sum = 0;

Step4: while NOO, create a loop (ox) enter the loop.

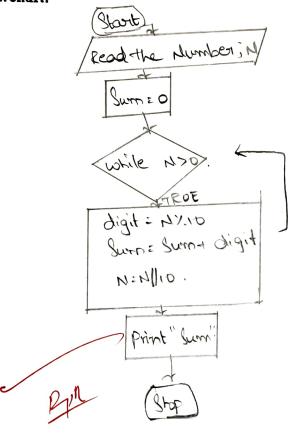
Steps: & N>0, Sum = Sum + digit, digit = N%16 &

extract the last digit by ME N/10.

Step6: print Sum of digits in N.

Step7: Stop.

Flowchart:



N TO ?