# Algorithm & Flowchart

# Calculate Area and Perimeter

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

# Algorithm:

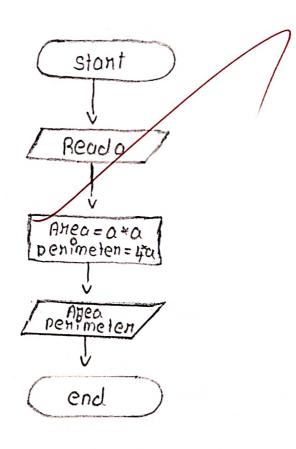
STEPI:- stant

STEP2: Read a

STEp3: Анеа = a \* a, penimeten = 4°a

STEP4: print "Anea & penimeten"

STEPS: Stop



Date: 26/09/24

Ex. No.: 2

# Days to Year Conversion

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

## Algorithm:

STEPI: Stant

STEP2: Input no of days

STEP3: calculate the no of years years = days 1365

STEP4: Calculate the semaining days after calculating

STEP4: Calculate the stemaining days = days % 365

STEP5: calculate the stemaining days

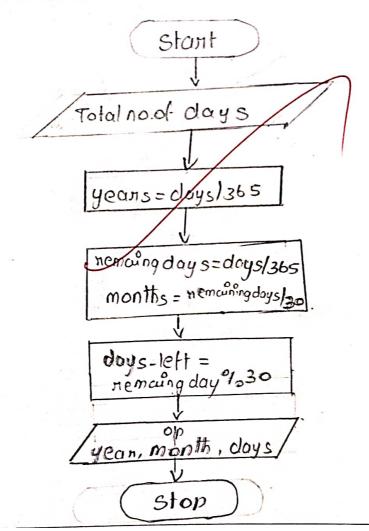
months = stemaining days | 30

STEP6: calculate the stemaining days after calculating

months days-left = stemaining -days 1.30

STEP7: output the years, months, days left

STEP8: End



#### Prime Number

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

# Algorithm:

STEPI: Stant

STEP2: Readn

STEP3: Set [-=1

STEP4: if n == , then print ("n's not a prime number")

go to step 8

STEPS: fon 1= 2 to n-1

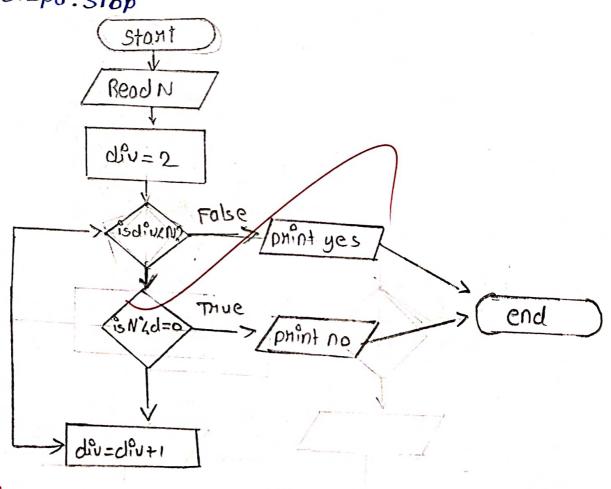
STEP6: If n'61 == 0 Then set f=12 break

else go to step 5

STEP7: If f==1 then print ("n's not a prime number")

phint ("n's a phime number")

Flowchart: STEP8: Stop



26/7/24

Date: 28/04/2024

# Leap Year

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

## Algorithm:

STEPI: Stant

STEp2: Read year Hem

Sтерз: лет = уеал%400

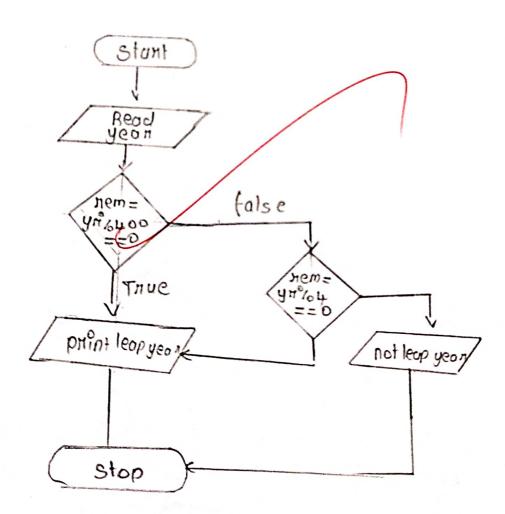
STEP4: if nem == 0 print ("Leap year)

STEPS: "Frem = year%4 == 0 print ("Leap year)

STEP6: else print ("Not a leap year)

STEP7: End

#### Flowchart:



50/9/24

Date: 28/19/2024

#### Palindrome Number

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

# Algorithm:

STEP1: Stant

STEP2: Read the number n

STEP3: initialye:
set oniginal = n Hevensed = 0

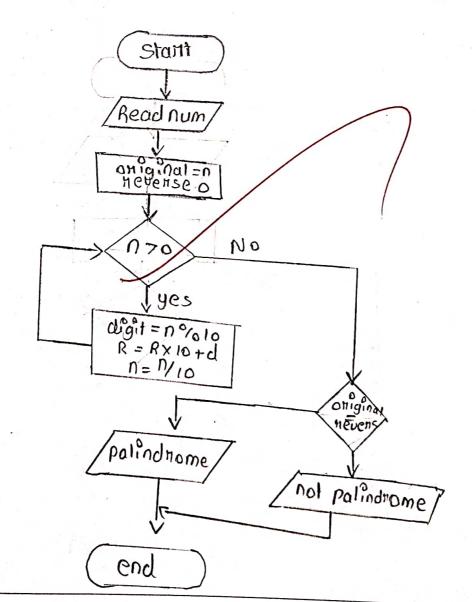
STEP4: while n>0

\* set digit = n modio \*update nevensed = nevensed x10 +digit \* update n=n=10

STEPS: if original = nevensed print ("palindrome")

STEP6: else print (not palindrome")

STEP7: End



Ex. No.: 6

Date: 28/9/2024

## Sum of Digits

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

## Algorithm:

STEPI: Stant

STEP2: Onet 'n' from the usen

STEP3: Intialise the sum is equal to Zeno

STEP4: check no true go to steps else go to step b

STEP5: Sum = Sum + (n%10)

STEP6: n=n/10, go to step 4

STEP7: print ("sum")

STEP8: end

