Ex. No.: 06

Date: 28/9/24

## **Sum of Digits**

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

## Algorithm:

Step1:8&out

step 2: Get n brom the will

Step 3: Initialize sum is equal to Tesus

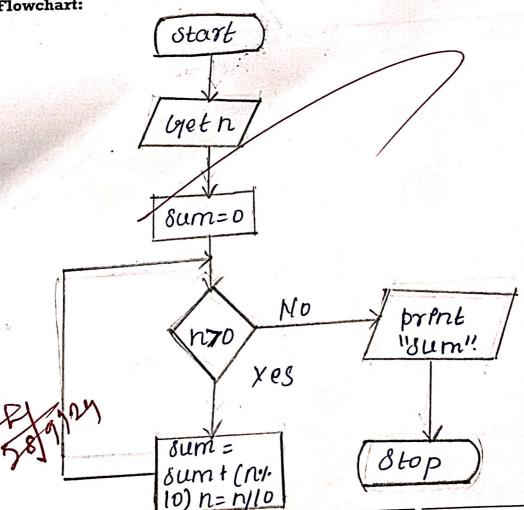
Step4: check 170, go to step 5

Steps: 8um = 8um & + (n.1.10).

step6: n=n/10, go to step 4.

Step 7: pouent, "Sum"

Step 8: Stop. Flowchart:



Ex. No.: 5

Date: 28/9/24

## **Palindrome Number**

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

### Algorithm:

8 sep 1: 8 savet

Shep 2: Get in buom user

ostep 8: ostep p=0, a=n

Step4: Check whether 170, go to step 5 else go to step 7

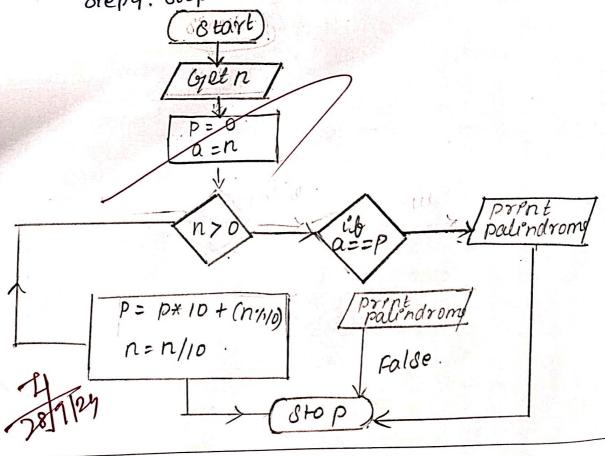
Step 5: p= (px10) + (n1.10)

step b: n=n/10, go to step4.

step 7: check whither a = = p, true. go to skep & else go to

Step 8: print palindrome, not palindrome.
Flowchart:

stepq: stop.



Ex. No.: }

Date: 28 9 2024

### Leap Year

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

# Algorithm:

Otep 1: Start

shepa: Get year brom the user.

Step 3: check whether year! 4==0 and y.1.100!=0 or

41.400 == 0. st is some then goto shep 4 else.

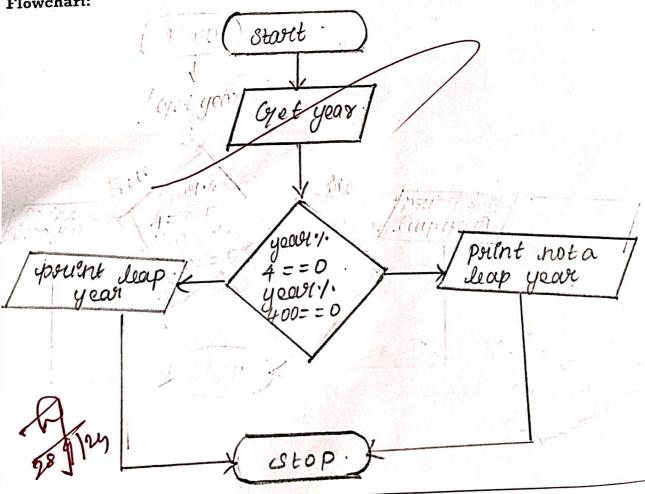
go to shep 5.

Step 4: pouint " leap year!"

shep 5: print " not a leap year!"

Step 6: Shop.

Flowchart:



Ex. No.: 3

Date: 26/9/2024

# Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime

# Algorithm:

step 1: stout

stepa: Get in buom user

812p 8: 8et l= 2

other 4: check it ne 2 other go to Step 5 else go to

Step 6.

step 5: prient "not prieme" and go to step 8

step 6: sto n.1.2=0 pouint "not pourne" etse "print prime!

step 7: Repeat shep 6 and I started ix = sgrt (n)

steps: stop.

Flow chart: 45 511 115 start; Get n from user Step 1: Showle stops: but solal jumber of step3: Initialise days in the days to 365 and alongs I'm med Ens in on 8 tep 4 from snaredy days souls for your not prime/ 1.1.1=0 ola, I sunto La step b: psuint u Step 7: 8top. St Pount 1 < sgrt pourne i = it Stop.

Ex. No.: 2

Date: 26/9/2024

# **Days to Year Conversion**

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

### Algorithm:

Step 1: 8tout

Ostepa: Get stosal numbers of clays

step 3: Invitialize days in years to 365 and days

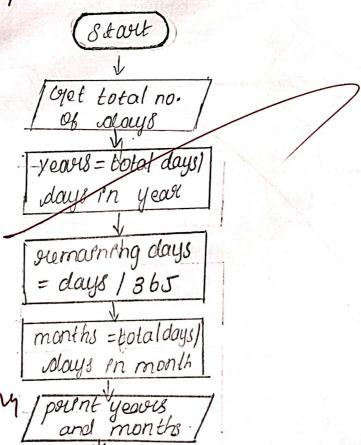
in months to 30.

Step 4: years = hotal days/ days in year

Otep 5: months = shotal days / days in month.

step b: pount years and months

Step 1: Stop. Flowchart:



Ex. No.: /

Date: 26/9/2024.

#### **Calculate Area and Perimeter**

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

### Algorithm:

Step 1: Staut

step 2: Road "a" becom the user

Step 8: Initialize Asea and previnction of Square is

INO

shep4: calculate avea as ax a and preimeter as

4x a and store in A and P

steps: print area and primeter.

Step 6: Stop.

Flowchart:

