Ex. No.: 01

Date: 25 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 1

Step3: Anea = 1 +1

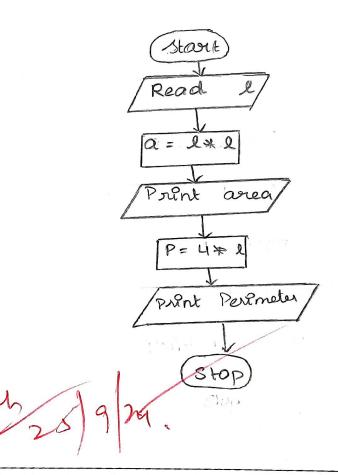
Steph: Peremeter acrea area

step 5: Parnt anea 4 % l

Step 6: Prent Perender

Step 7: Stop.

Flowchart:



Ex. No .: 2_

Date: 25/09/24

Days to Year Conversion

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

Algorithm:

step1: Start

-stepa: Input no of Days

step3: Calculate the no. of years = days 11 365

steph: Calculate the remaining days after calculating years. Remaining days = days

step 5: calculate the no of months

months = semaining days /30
step 6: calculate the semaining days after calculating months days - Left = Remaining days y 30
step 7: Output the years, months and days - left

Flowchart: Step 8 : End .

Stant I/P total no. of days years = days 1.365 remaining days = days 1. 365 months = remaing days 130 days left = remaing days 1.30 Shop

Date: 25/09/24

Prime Number

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

Algorithm:

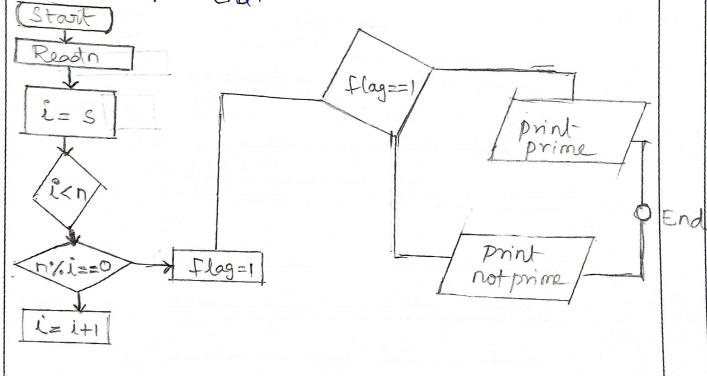
Step 1: Take num as imput

Step 2: Initialize a variable temp to 0 Step 3: Iterate a for "loop from 2 to num/2

Step 4: If num is divisble by loop, then increment

Step 5: If the temp is equal to 0, return "Num is prime" else return "Num is not prime"

Step: 6 End. Flowchart:



Ex. No.: 4

Date: 25/09/24

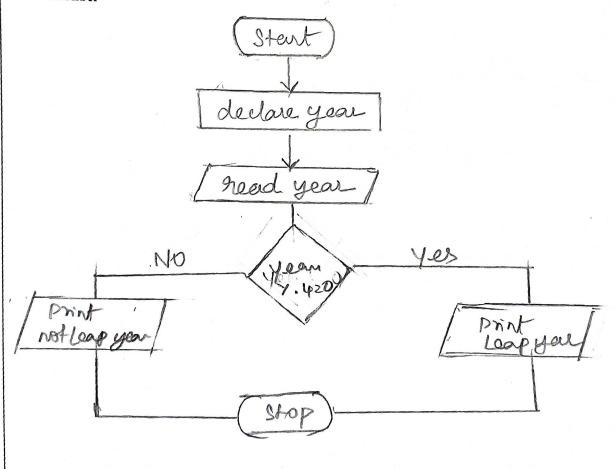
Leap Year

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

Algorithm:

Step1: Start
Step2: Declare year
Step3: Read year
Step4: Check if year % 420
Step5: Print v leap year "
else "
print not leapyear"
Step6: Stop

Flowchart:



Ex. No.: 5

Date: 25/09/24

Palindrome Number

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

Algorithm:

Step1: Start Step 2: Read the number n Step 3: Initialize; Set orginal = n is reversed = 0 Step 4! while n > 0 Set digit = n mod to

update reversed = reversed ×10 + digit

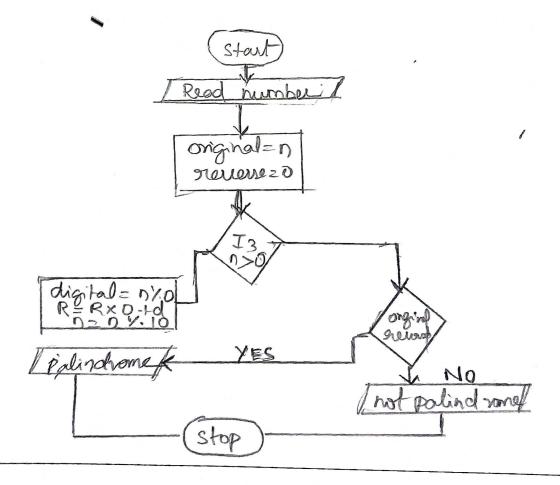
update n = n = 10

Step 5: 'y Original = reversed

print "pulin drome"

else print " not palindrome"

step 6: End.



Date: 25/09/24

Sum of Digits

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

Algorithm:

Step1: Start Step 1: Start

Step 2: Input the number (n)

Step 3: Initialize Sum = 0

Step 4: Repeat the following steps while n is

greater than 0.100

- Extract the last digit q n digit = n 1/10

- Add the digit to Sum Sum = Sum + digit

- Remove. The last digit n:n = n/10

step 5: 0/p the Sum

Other Life Sum Step 6: End.

Flowchart:

