Algorithm & Flowchart

Ex. No.: 01 **Date:** 24-10-2024

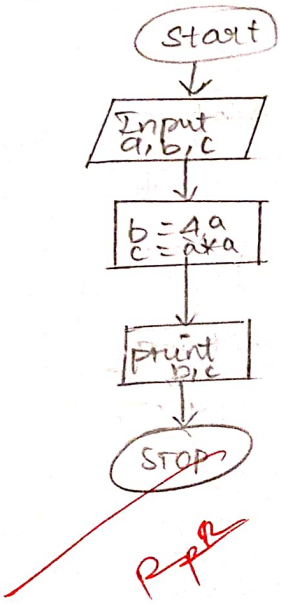
Calculate Area and Perimeter

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

Algorithm:

STEP:1: Start
STEP:2: Declare Variable a,b,c
STEP:3: b=4a
STEP:4: c= a*a
STEP:5: Execute b,c
STEP:6: STOP

Flowchart:



Sample output
a=2
b=8 , c=4

Ex. No.: ~~02~~ 11 Date: 24-10-2024

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: Declare variable a, b, c

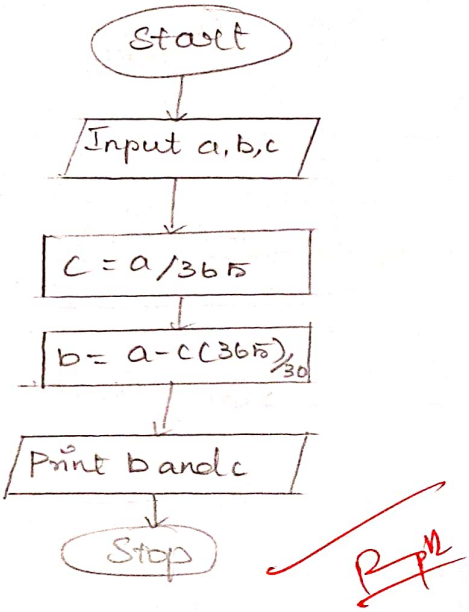
STEP:3: Years, c = a/365

STEP:4: Months, b = a - c(365)/30

STEP:5: Execute b and c

STEP:6: STOP

Flowchart:



Ex. No.: 3 (11) **Date:** 24-10-2024

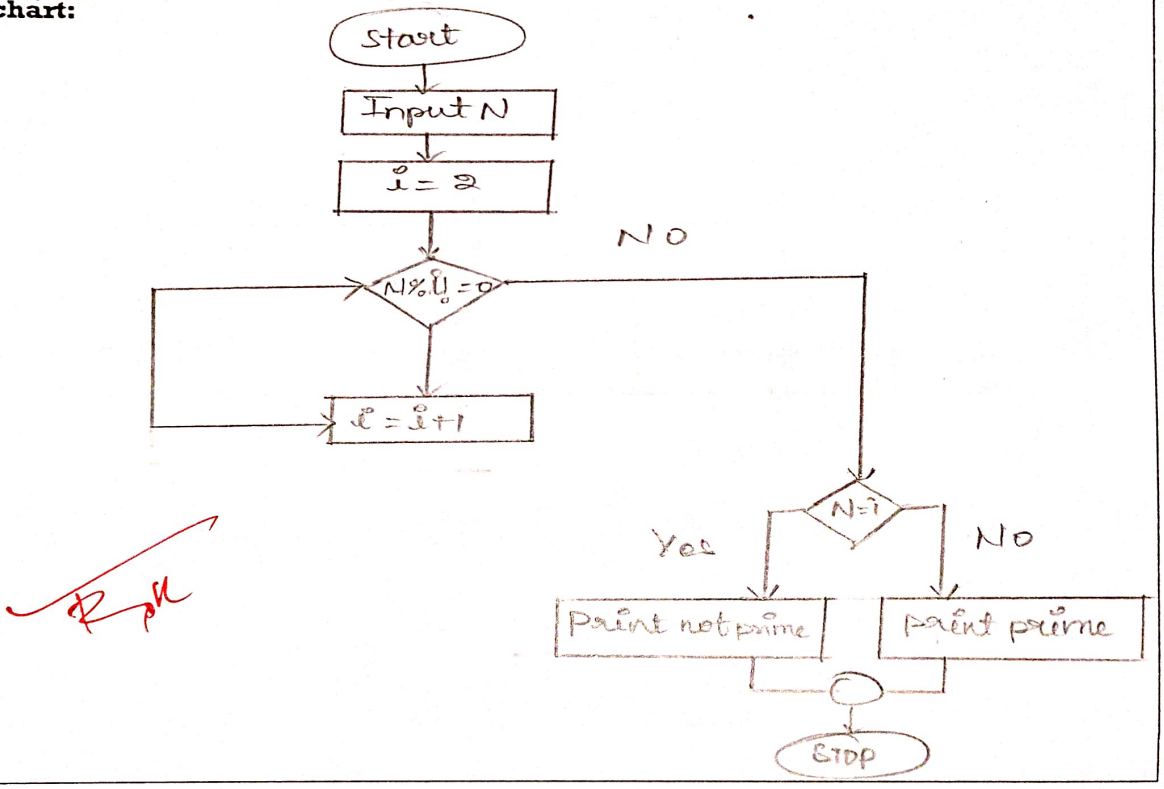
Prime Number

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

Algorithm:

STEP:1: start
STEP:2: Declare variable a
STEP:3: Initialize i = 2
STEP:4: while i <= num/2
STEP:5: If a % i = 0, then print Not prime no.
STEP:6: Do i = i+1
STEP:7: If (i == (a/2)+1), then print prime no.
STEP:8: stop.

Flowchart:



Ex. No.: 4 IV

Date: 24-10-2024

Leap Year

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

Algorithm:

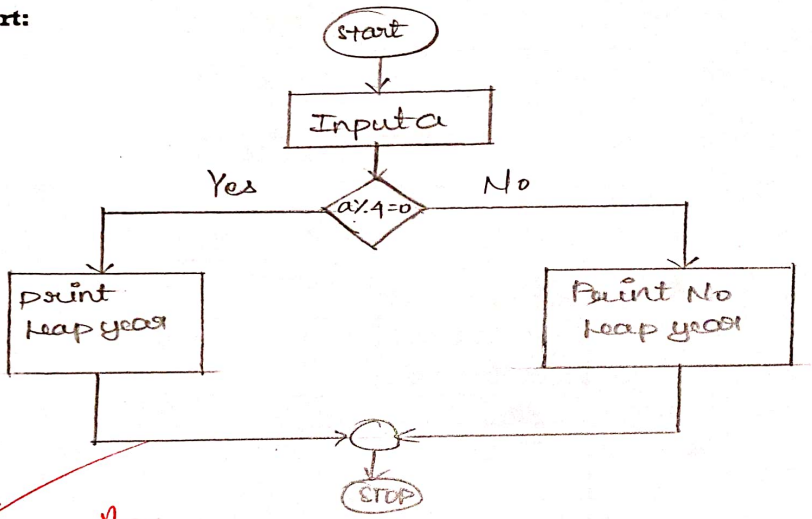
STEP:1: Start

STEP:2: Declare Variable a.

STEP:3: check a%4=0. Then print leap year.
If not print Not leap year.

STEP:4: stop.

Flowchart:



PpR

Ex. No.: V

Date: 24.10.2024

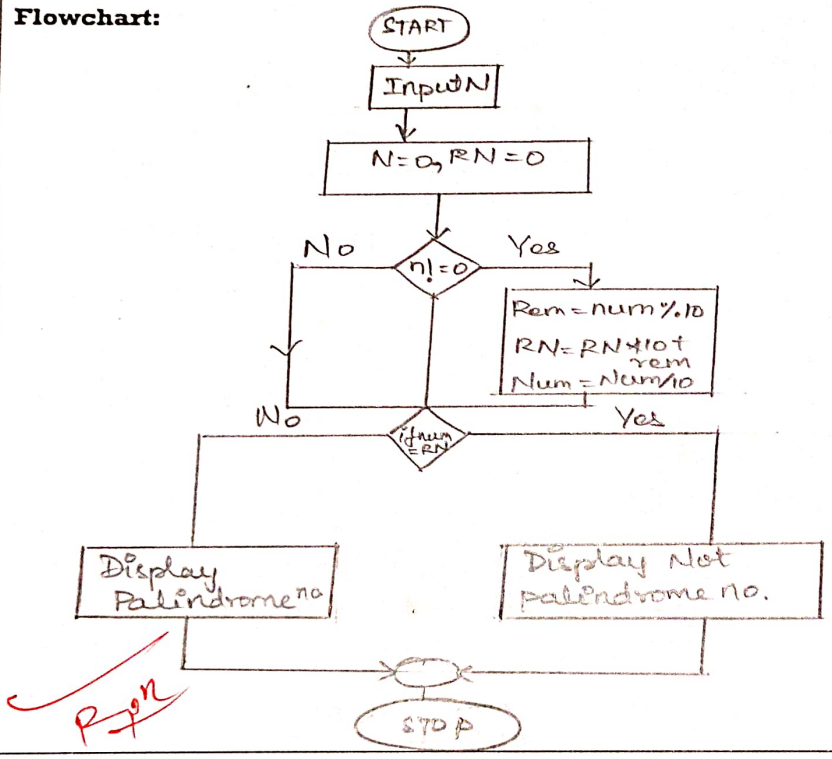
Palindrome Number

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

Algorithm:

STEP:1: start
STEP:2: Declare n.
STEP:3: Reversed integer is in reversed variable using which (n!=0)
STEP:4: Calculate rem = n % =0
STEP:5: If (original == reversed) display No.is palindrome no. Else display Not palindrome No.
STEP:6: stop.

Flowchart:



Ex. No.: 8 VI

Date: 24-10-2024

Sum of Digits

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

Algorithm:

STEP:1: Start

STEP:2: Read a as a, b as 0

STEP:3: While loop and a != 0

STEP:4: sum b = b + a % 10 and decrease a = a/10

STEP:5: Display b as sum of digit.

STEP:6: Stop.

Flowchart: