Ex. No.: 241801299

Date: 31-9-24

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: Input is prime

Step 3:- if (num <= 1 => printf ("not a prime")

Step 4: (i = 2; i*i <= num; i++)

{ if (num % i == 0)

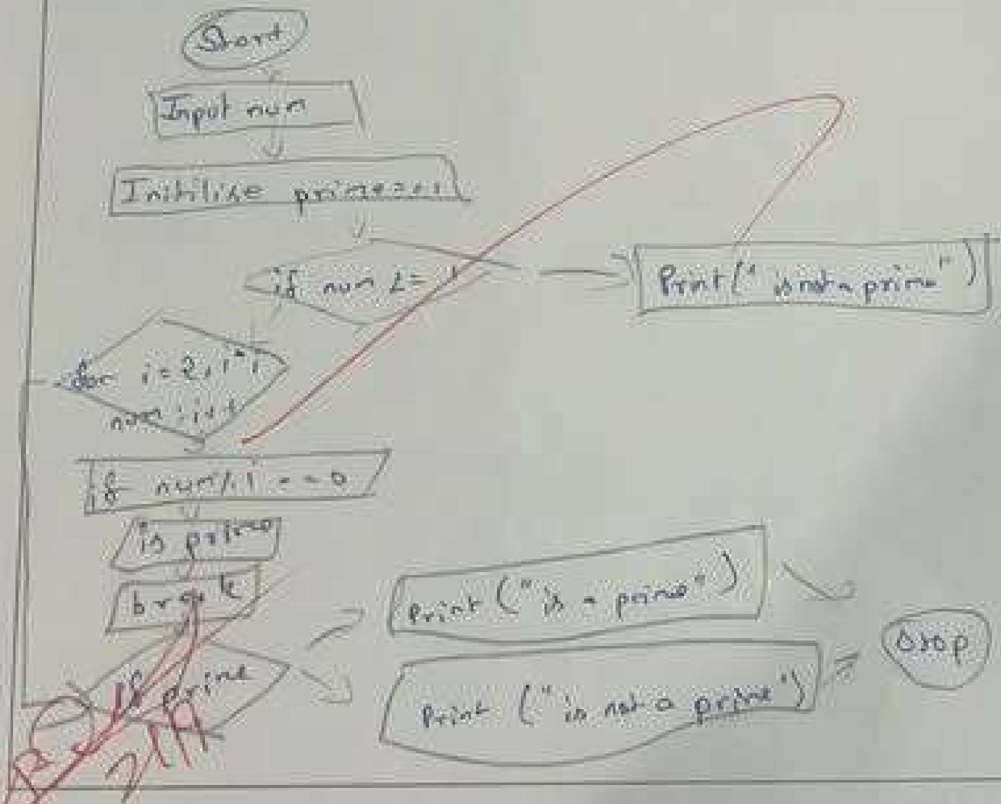
isprime = 0

break

Step5:- if (isprime) printf("prime no") else (is not prime No)

Step 6:- Stop

Flowchart:



2418 21274

Ex. No.:

Date: 20/9/2024

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: declare num, sum=0, last

Step 3: input num.

Step 4: while num>0

last = num % 10

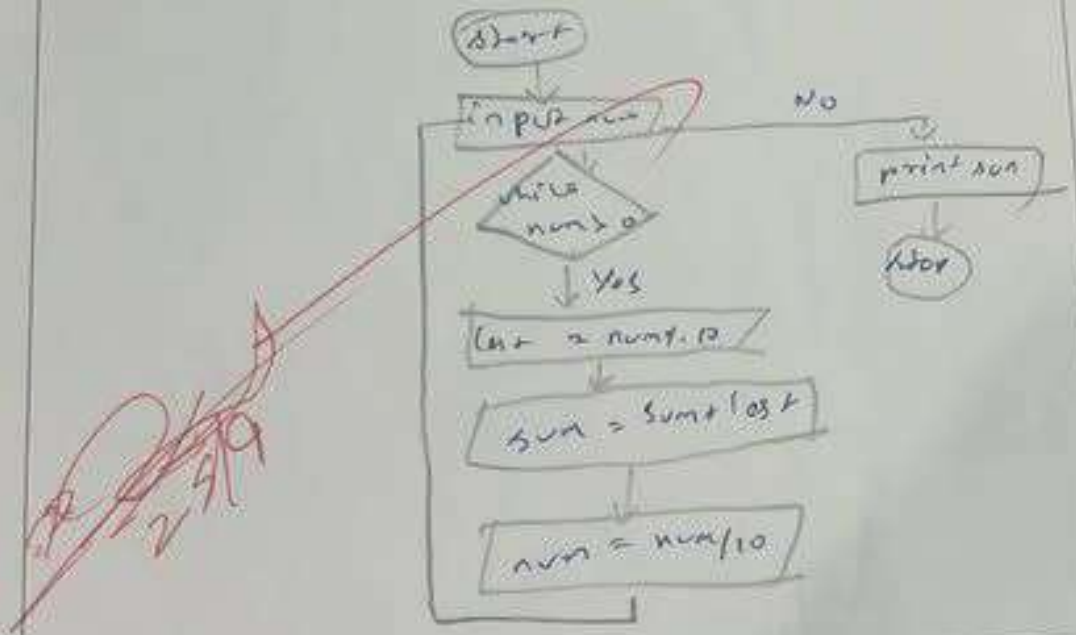
sum = sum + last

num = num/10

Step 5: print sum

Step 6: stop

Flowchart:



Ex. No.: 2418012004

Date: 28-09-24

Leap Year

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

Algorithm:

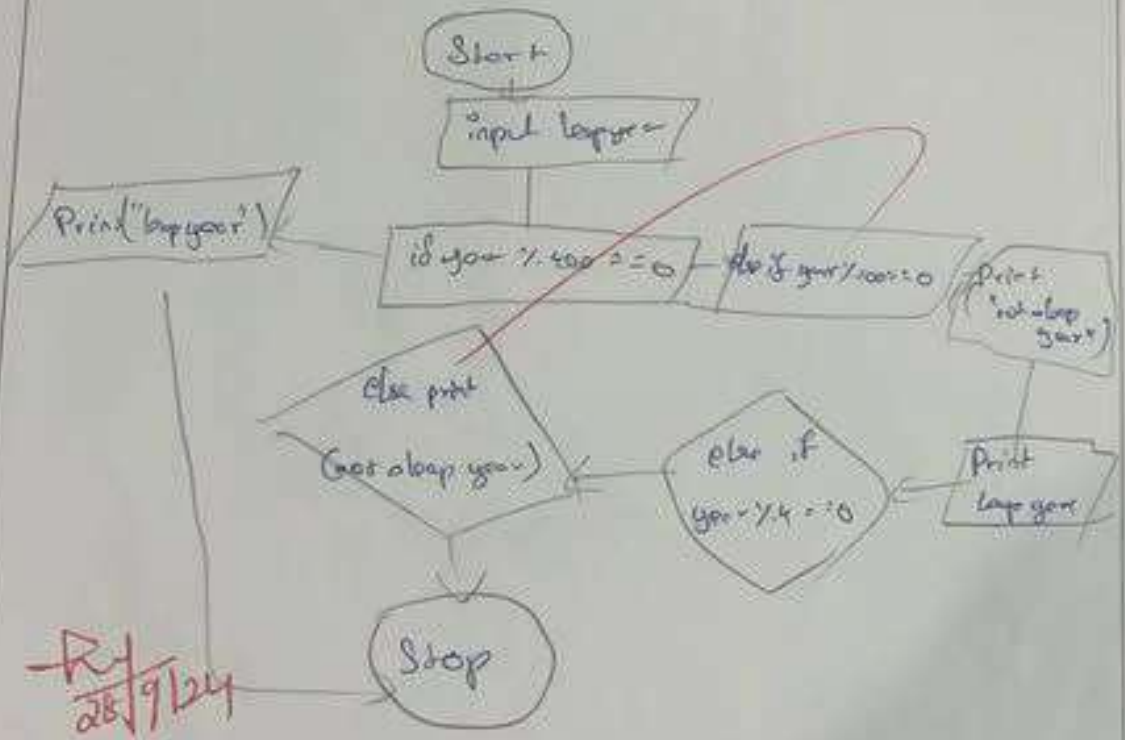
Step 1 : Start

Step 2 : Input year

Step 3 : if (year % 400 == 0) : print ("leap year")
else if (year % 100 == 0) => print ("not a leap year")
else ("not a leap year")

Step 4 :- Stop

Flowchart:



RJ 28/9/24

Ex. No.: 7(i)

Date: 28/9/2024

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: construct variable to hold total initialize the value to 0.

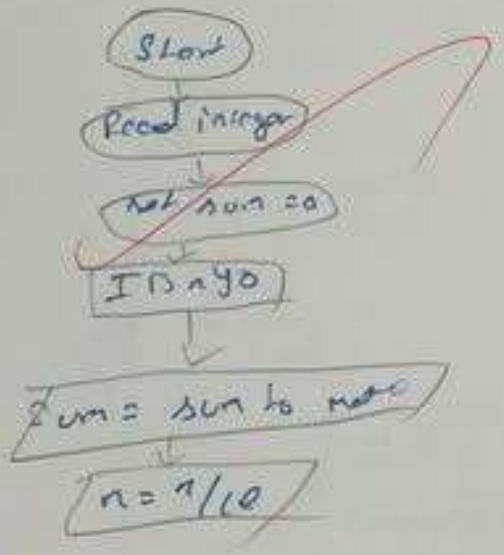
Step 3: Divide the no by 10 to obtain right most digit using remainder "percent" operator then add it to the total

Step 4: use "/" operator to divide the integer by 10 to obtain the last digit

Step 5: print the total

Step 6: stop

Flowchart:



28/9/24

Ex. No.:

2410a0299

Date: 21-9-24

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 :- Input days

Step 3 :- years = days/365

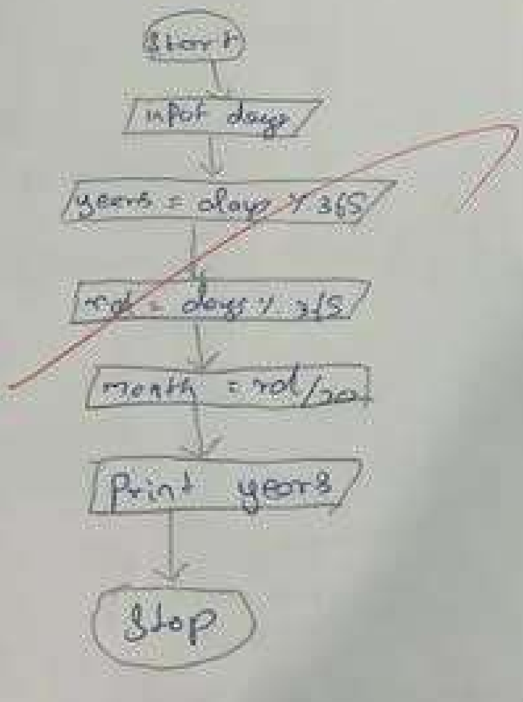
Step 4 :- rd = days % 365

Step 5 :- month = rd/30

Step 6 :- print year and month

Step 7 :- Stop

Flowchart:



21/9/24