Ex. No.:

Date: 26-9-24

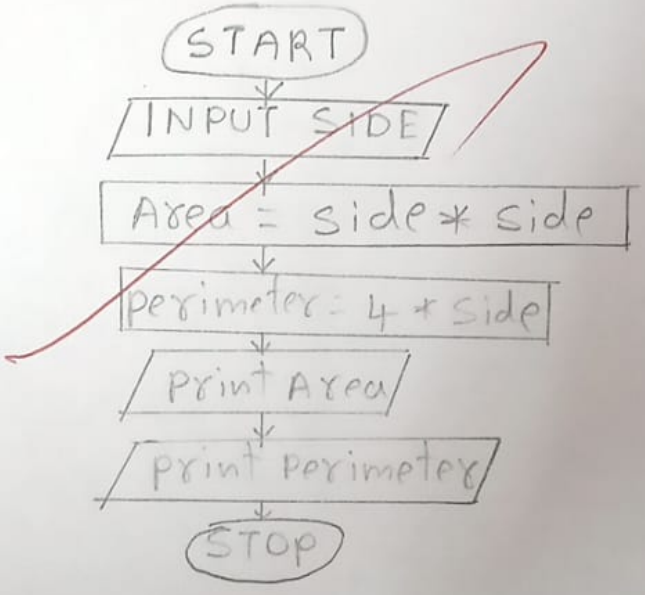
Calculate Area and Perimeter

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

Algorithm:

STEP1: START
STEP2: INPUT side
STEP3: Area = side * side
STEP4: Perimeter = 4 * side
STEP5: Output Area (or) print Area
STEP6: Output perimeter (or) print perimet
STEP7: STOP

Flowchart:



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GE23131 - Programming Using C

Ex. No.:

Date: 26/9/24

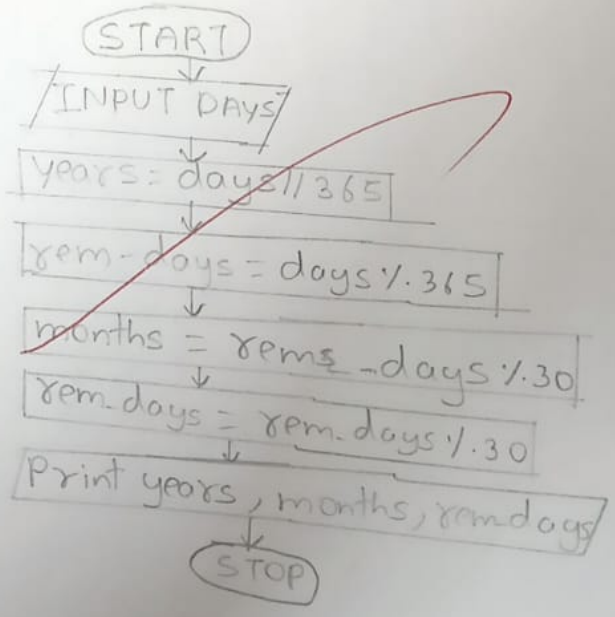
Days to Year Conversion

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

Algorithm:

STEP1: START
STEP2: INPUT DAYS
STEP3: years = days // 365
STEP4: rem-days = days % 365
STEP5: months = rem-days // 30
STEP6: rem-days = rem-days % 30
STEP7: print years, months, rem-days
STEP8: STOP

Flowchart:



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Ex. No.:

Date: 26/1/24

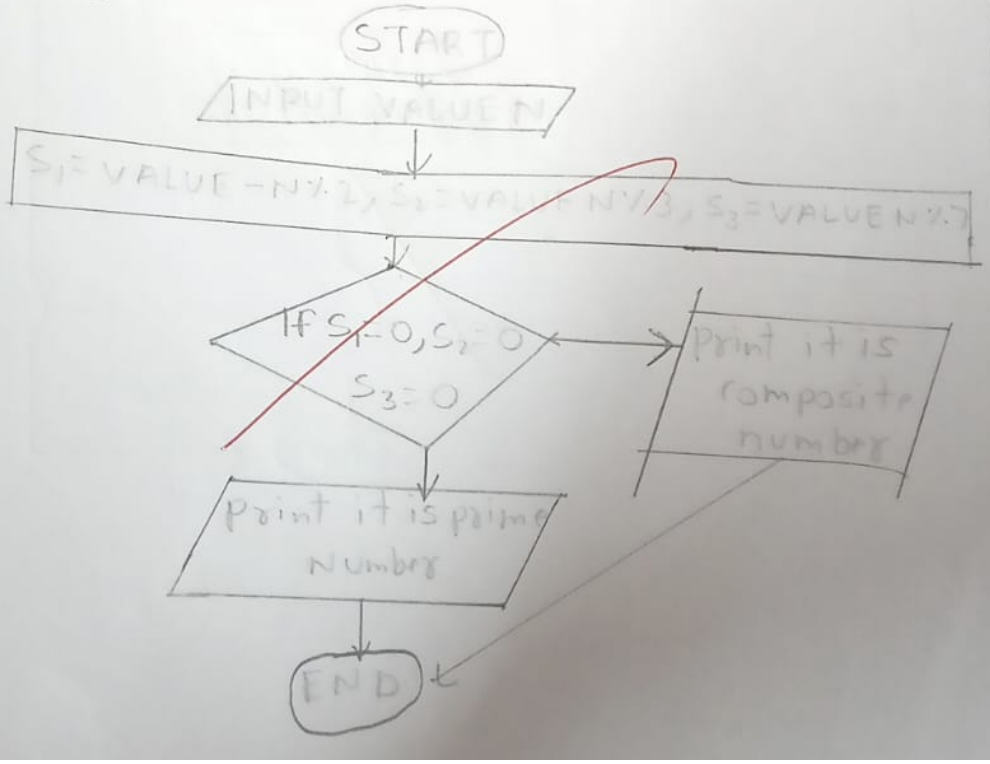
Prime Number

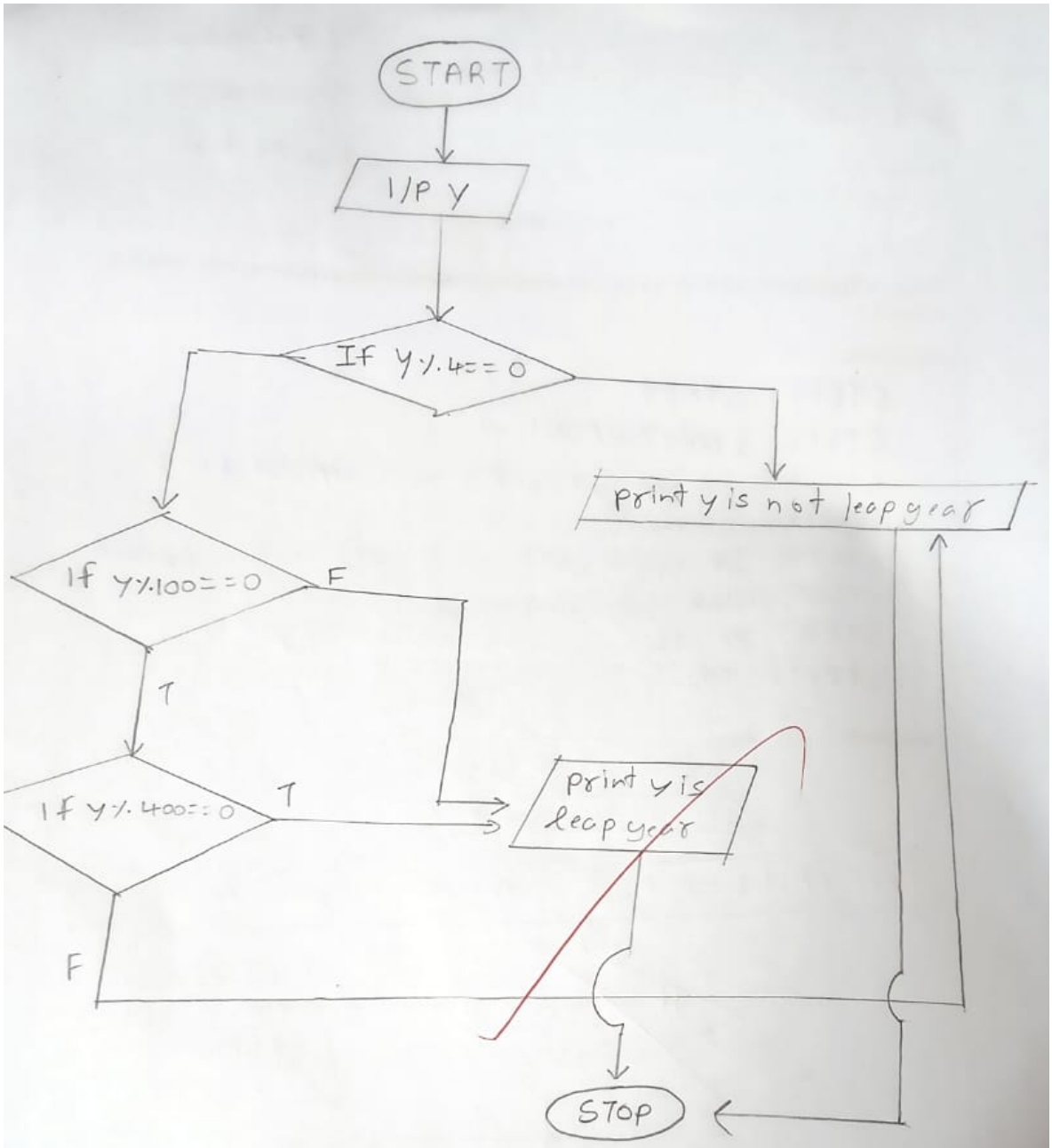
Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

STEP1: START
STEP2: INPUT VALUE_N
STEP3: S_1 = VALUE_N % 2 S_2 = VALUE N % 3
S_3 = VALUE_N % 7
STEP4: If S_1 = 0 (or) S_2 = 0 (or) S_3 = 0 L = prime
STEP5: ELSE L = composite
STEP6: PrintL
STEP7: STOP

Flowchart:




START
I/P Y
If yy.4==0
print y is not leap year
If yy.100==0
F
T
If yy.400==0
T
print y is leap year
F
STOP

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GE23131 - Programming Using C

Ex. No.:

Date: 28/9/24

Leap Year

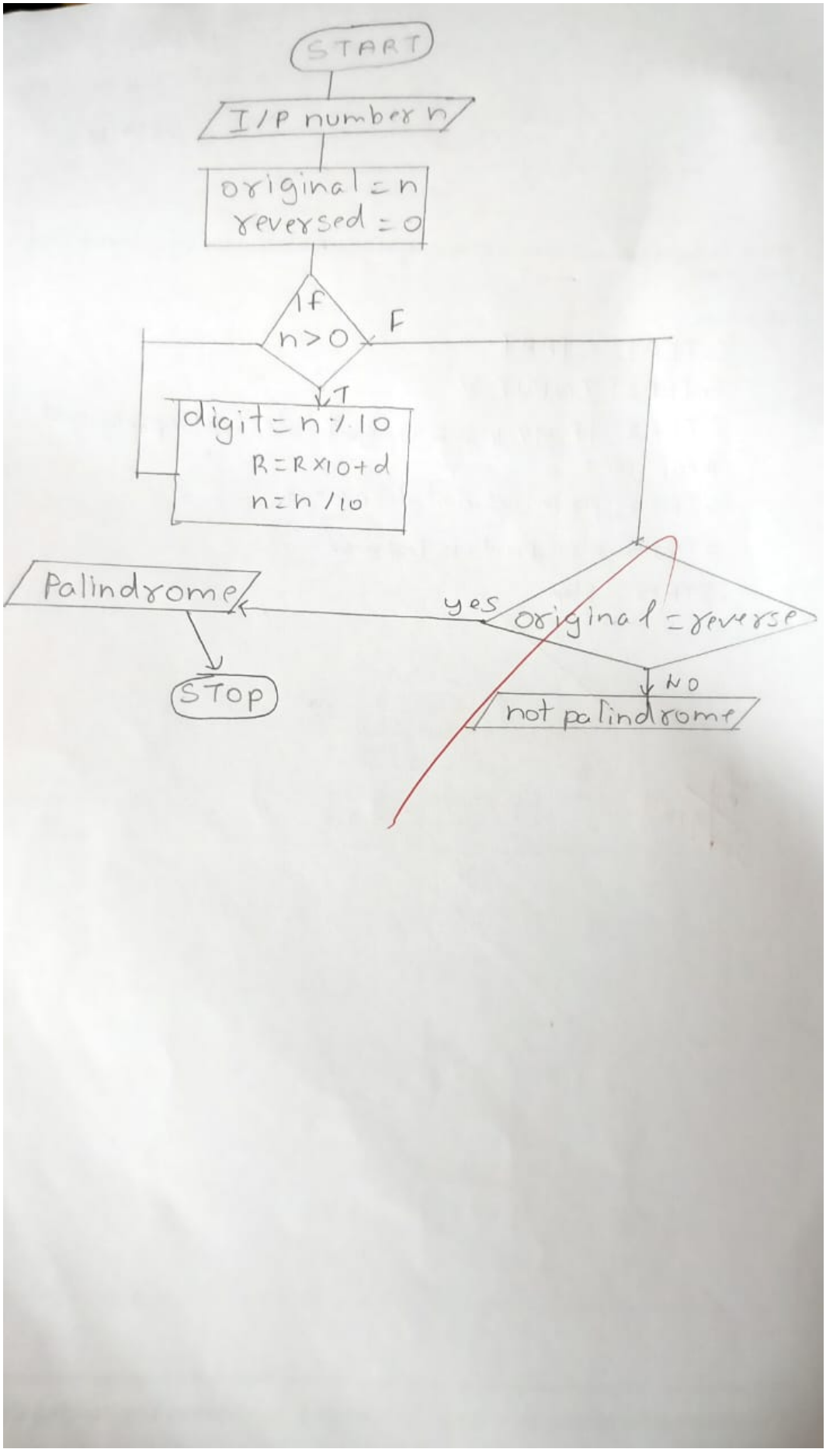
Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

Algorithm:

STEP1: START
STEP2: INPUT Y
STEP3: If y%.4 == 0 go to step 4 else printy is not leap year
STEP4: printy is not leap year
STEP5: else printy is Leap year
STEP6: Stop

Flowchart:

28/9/24


START
I/P number n
original = n
reversed = 0
If
n > 0
F
T
digit = n % 10
R = R x 10 + d
n = n / 10
original = reverse
yes
Palindrome
STOP
NO
not palindrome

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GE23131 - Programming Using C

Ex. No.: **Date:** 28/8/24

Palindrome Number

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

Algorithm:

STEP1 : START
STEP2: INPUT the number A
STEP3: Initialize &:
Set original = n & reversed = 0
STEP4: while n > 0
Set digit = n % 10
update reversed = reversed x 10 + digi
update n = n ÷ 10
STEP5: if original = reversed
Flowchart: STEP6: Print "Palindrome"
else:
print "not palindrome"
STEP7: STOP

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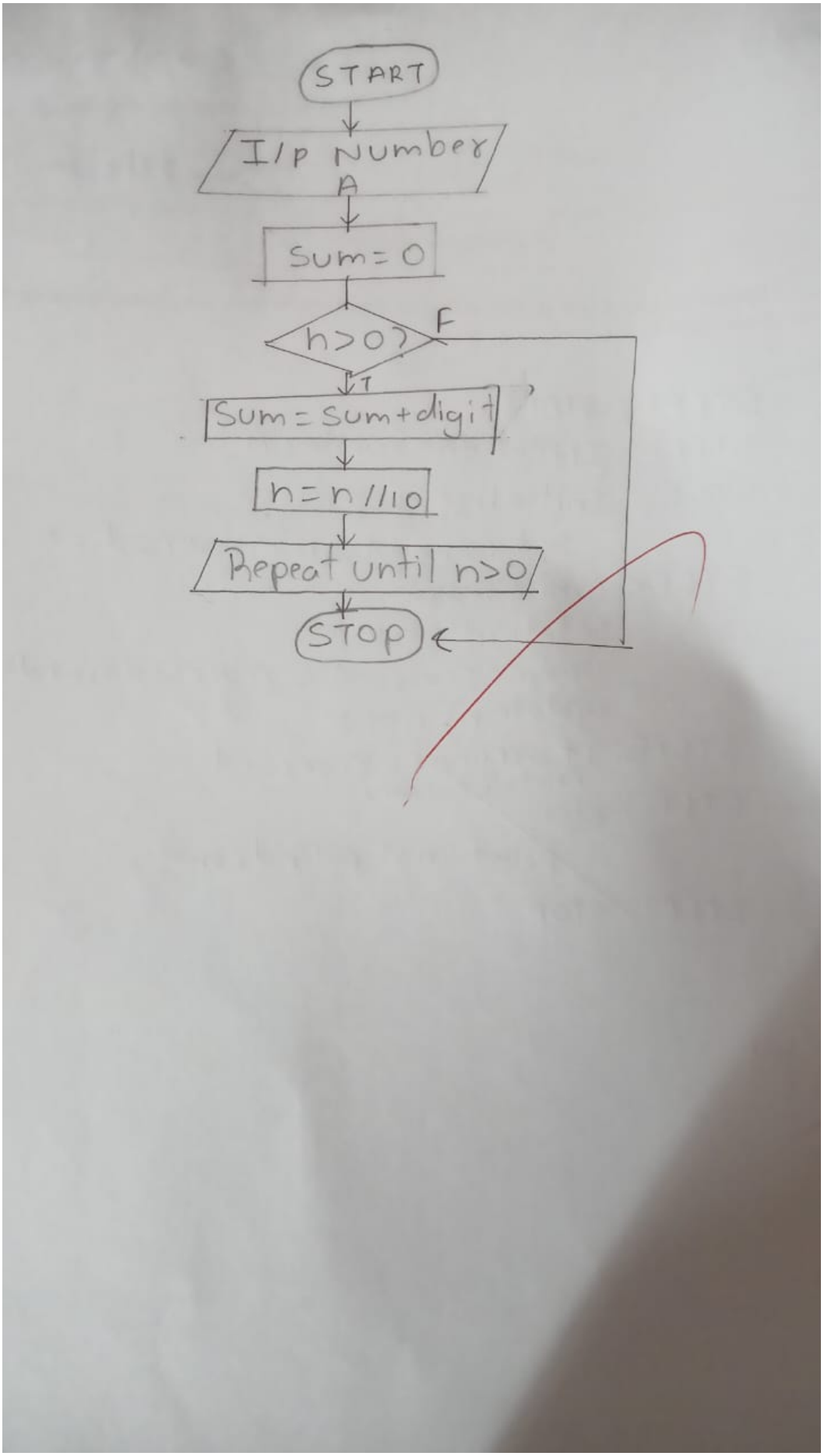
START
I/p Number
A
Sum = 0
n > 0 ?
F
T
Sum = Sum + digit
n = n // 10
Repeat until n > 0
STOP

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GE23131 - Programming Using C

Ex. No.: **Date:** 28/1/24

Sum of Digits

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

Algorithm:

STEP1: START
STEP2: I/P the number (n)
STEP3: Initialize sum = 0
STEP4: Repeat the following steps while n is greater than 0. n>0
- extract the last digit of n:
  digit = n % 10
- Add the digits is sum:
  sum = sum + digit
- Remove the last digit from n:
  n = n // 10

STEP5: O/P the sum
STEP6: END

Flowchart:

28/1/24