GE23131 - Programming Using C

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:

Step 1: Start

Step 2: Read a

Step 3: Area = a\*a

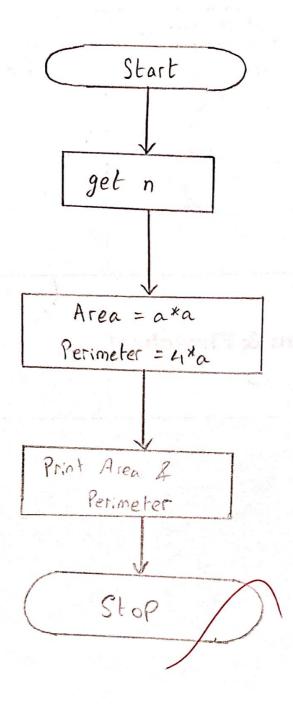
step4: Perimeter = a\*4

Step 5: Print Area, Perimeter

Step6: Stop

Flowchart:

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Ex. No.: 2

Date: 26/9/24

#### **Days to Year Conversion**

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

# Algorithm:

Stepl: Start

Step2: Input number of days

Step3: Compute years = total Days /365

Step4: Compute remaining Days = total days % 365

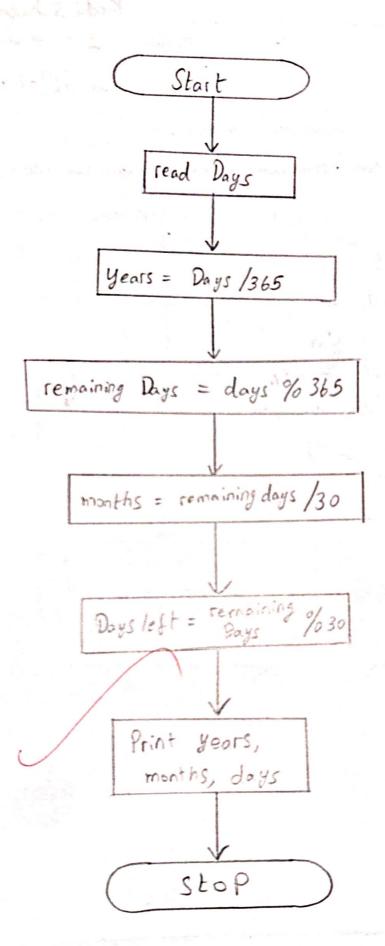
Step 5: Compute months = remaining Days/30

Step6: compute days left = remaining Days %30

Flowchart:

Step 7: Print. years, months, Days

step8: stop



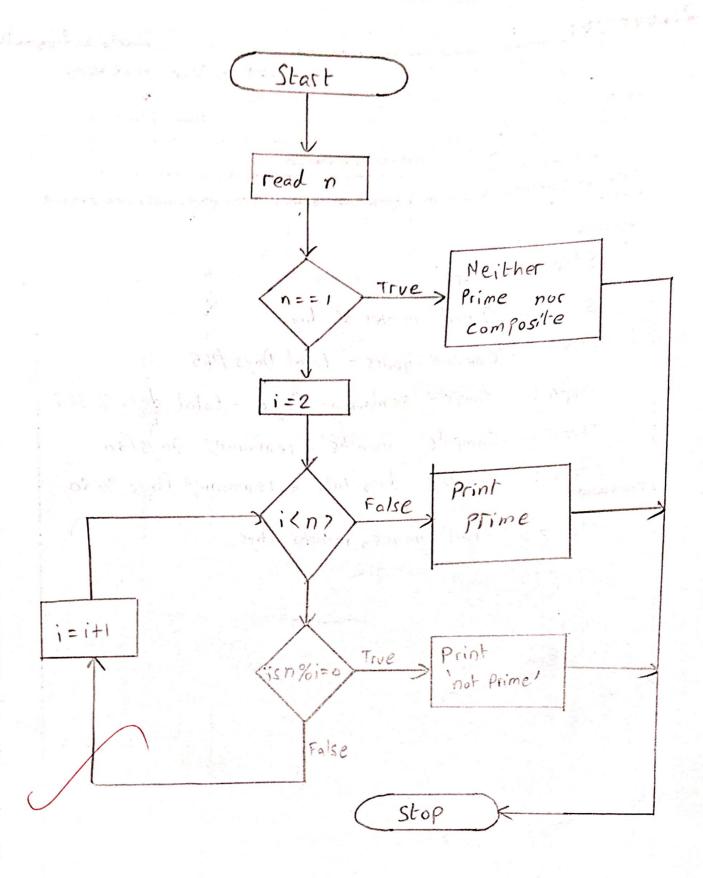
Ex. No.: 3

Date: 26/9/24

# **Prime Number**

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

# Algorithm:



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Ex. No.: 4

Date: 26/9/24

## Leap Year

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

## Algorithm:

Step1: Start

Step2: read year, rem, rem2, rem3

Step3: remi = year 0/64

Step4: If rem1 == 0

Step 5: rem2 = year %100

#### Flowchart:

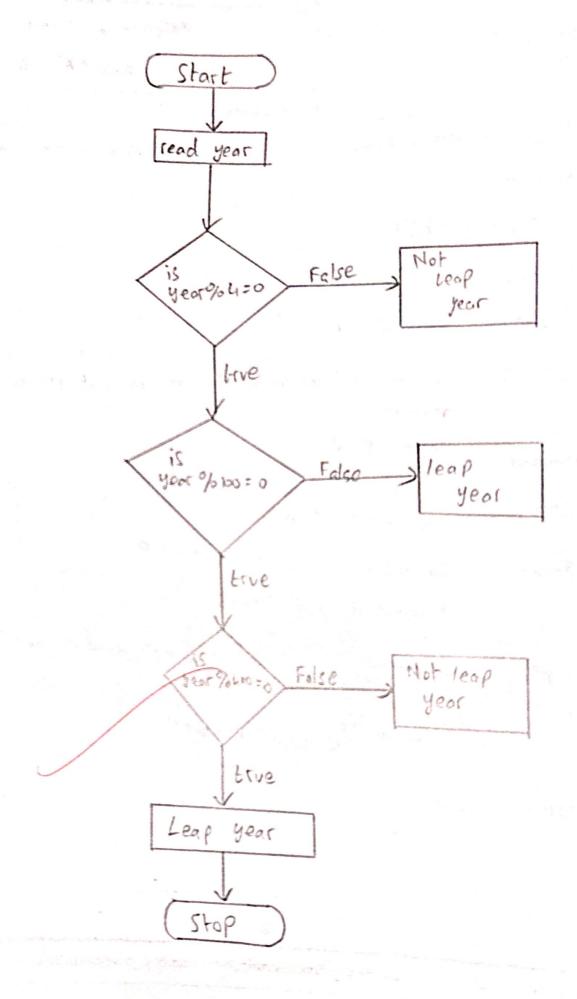
Step6: If rem2 == 0 goto step7 else print "not leap year"

Step7: rem3 = year %400

Step8: If rem3 == 0 print "Leapyear"

Step 9: Stup

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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:

Step1: Stort

Step 2: read n

Step 3: Initialize elements original = n, reversed = 0

Step 4: While n>0

reverse v= 10+n%10

update n=n/10

#### Flowchart:

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Step 5: If original = = reverse

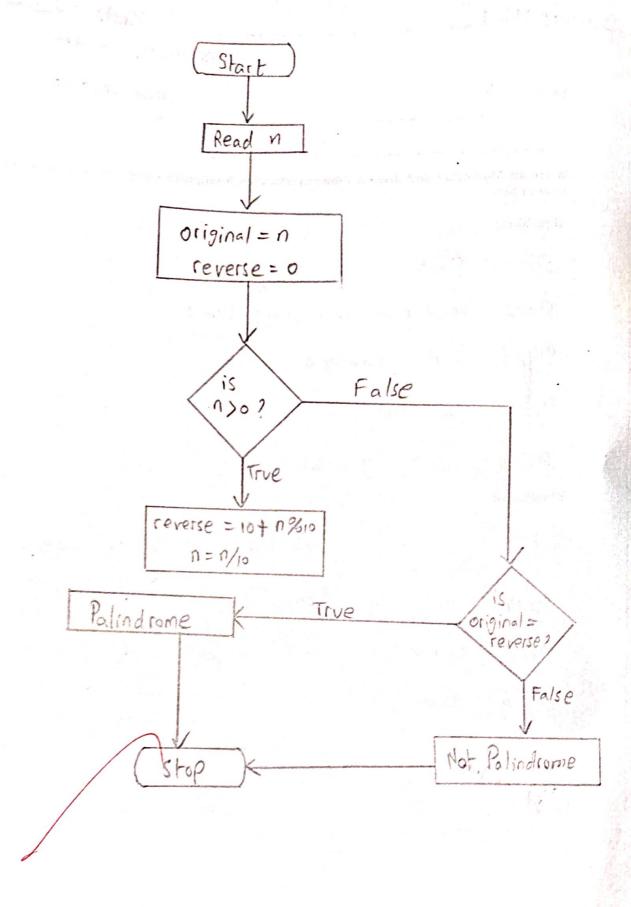
Print "Palindrome"

step6: else

print " Not Palindrome"

Step7: Stop

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Ex. No .: 6

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:

Step 1: Start

Step 2: read n.

Step3: initialize , sum = 0

steph: While no if true go to steps else goto step 7

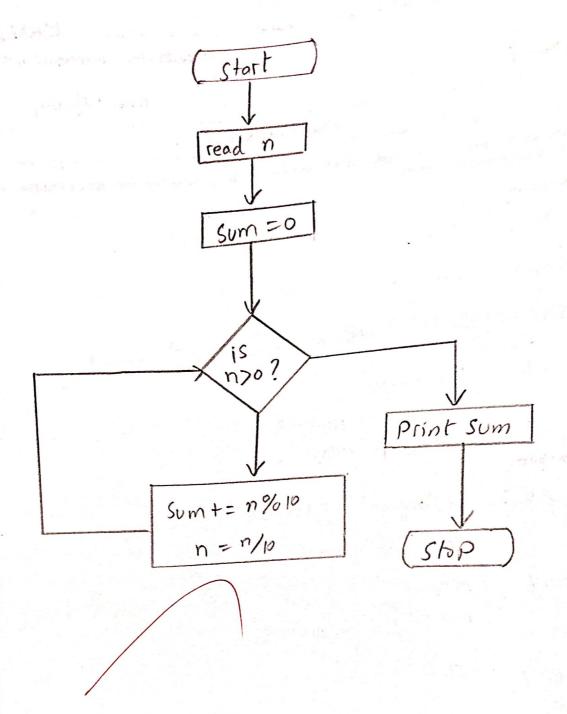
Step5: sum += n%10

Step6: n = n/10 go to step 4

Step7: Print "sum"

Step8: Stop

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W. J. K.