P. MAGESHBAPU

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GE23131 - Programming Using C

Ex. No .: 01

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

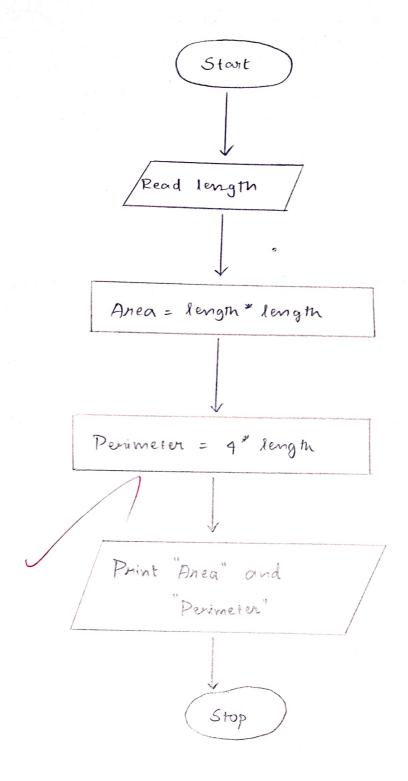
Step-2: Read length

Step-3: Area = length \* length

Step-4: Perimeter = 4 \* length

Step-5: print "Area" and "perimeter"

Flowchart: Step - 6: Stop.



Ex. No.: 02

Date: 26.9.24

## Days to Year Conversion

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

Algorithm:

Step-1: Stant

Step-2: Read days

Step-3: Initialize years = 0 and months = 0

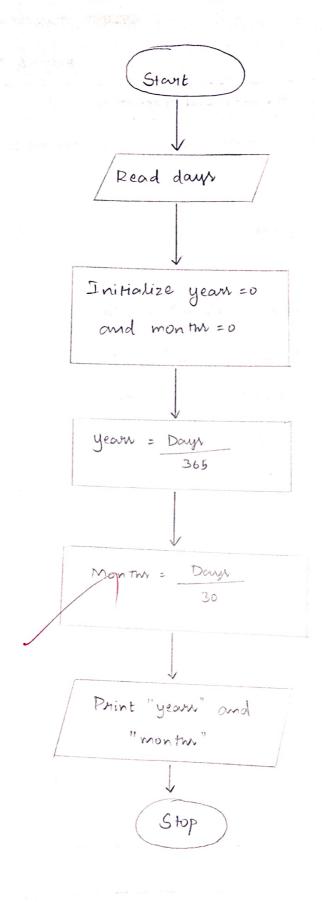
Step-4: yearn = Days 365

Step-5: month = Day

Flowchart:

Step-6: Print "yearn" and "month".

Step-7: Stop



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Ex. No.: 03

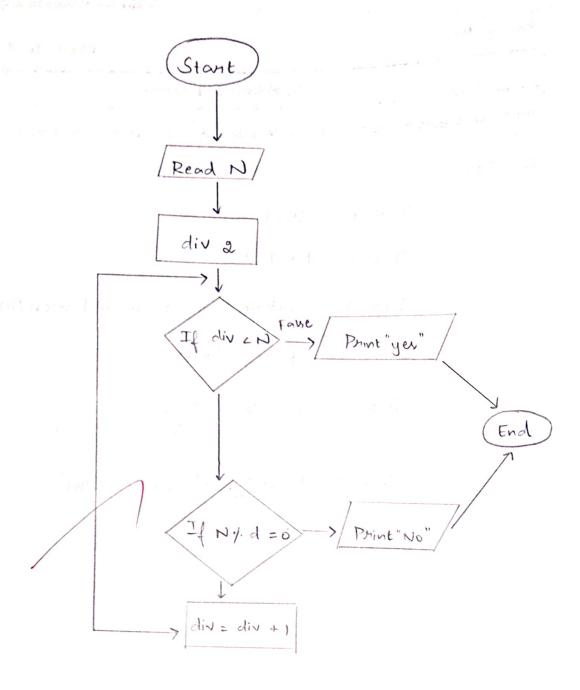
Date: 26.9.24

### **Prime Number**

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

Algorithm:

Flowchart:



Ex. No.: 94

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:

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Step - 1: Start

Step - 2 : Read year Hem

Step-3: Rem = year 1.4

Step-4: 4 nem = = 0

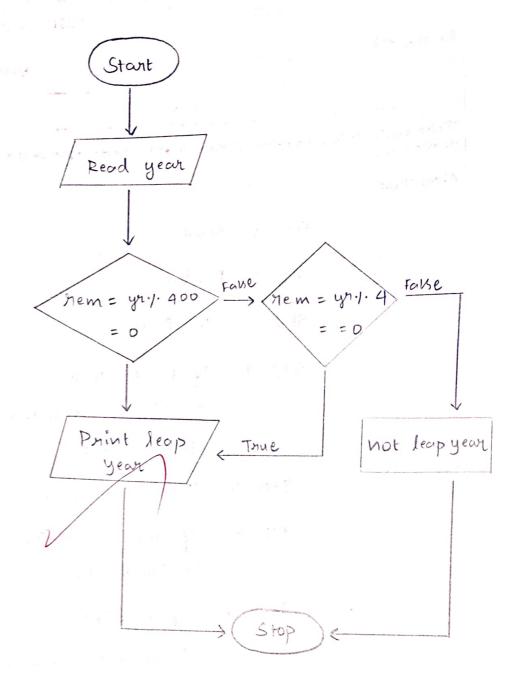
print ("Leap year")

Flowchart:

Step-5 : else

print ("not leap year")

Step-6 End.



Ex. No.: 05

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:

Step-1: Stout

Step-2 : Read from user

Step-3 : Step p=0, a=n

Step-4: Check Whether n>0, go to Step-5

else go to Step 7

Step- 5: p= (p\*10) + (ny. 10)

Flowchart:

9

9

0

Step - 6: n= n, go to Step-4

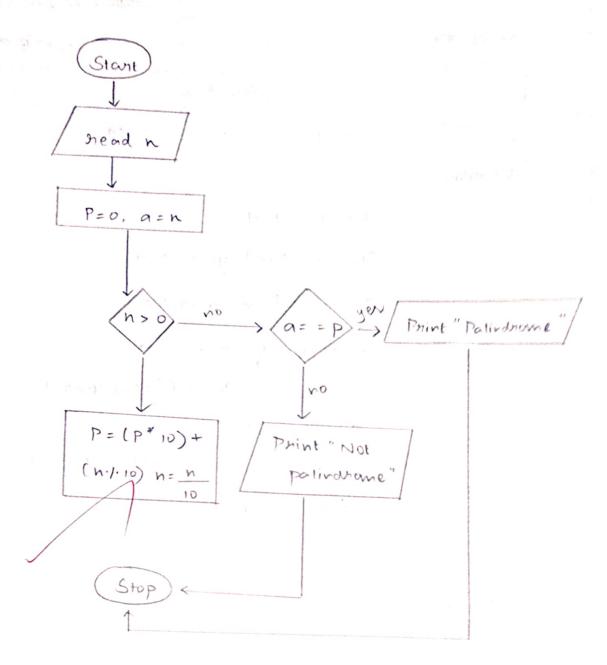
Step-7: Check Whether a == p, true

go to Step-8 else go to Step-9.

Step-8: Print "Palindrome" go to Step-10

Step-9: Print "not parindrome"

Step-10: End



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Ex. No.: 06

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:

3

9

5

J

5

9

5

3

3

Step- 1: Start

Step-2: Get 'n' from the user

Step-3: Initialize Sum in equal to Zero.

Step-4: Check n>0 true go to step 5

else go to Step 6.

Step 5 : Sum = Sum + (n/10)

Step 6: n= n , go to Step 4

Step 7 : Print "Sum"

Step 8 : Stop.

