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WEEK-0

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GE23131 - Programming Using C

Ex. No.: 1

Date: 26/09/2024

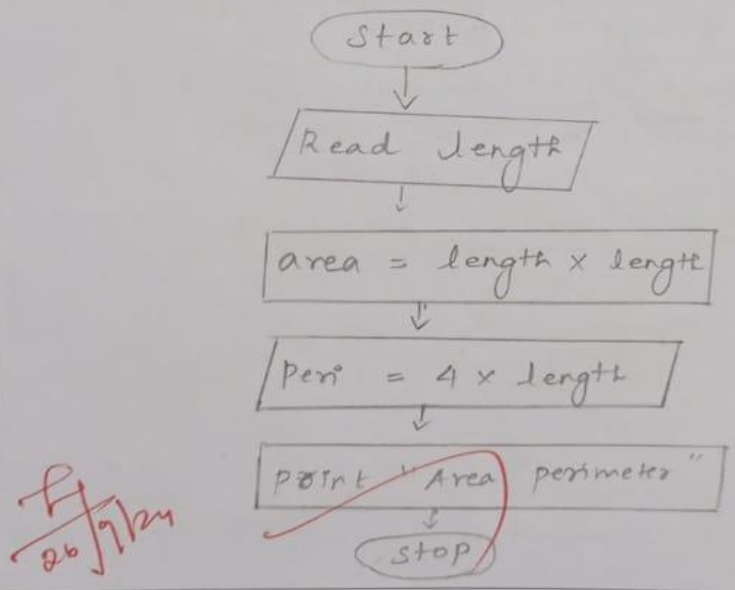
Calculate Area and Perimeter

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

Algorithm:

Step 1: Start
Step 2: Read length
step 3: Calculate Area = length x length
Peri = 4 x length
Step 4: print "area and perimeter"
Step 5: Stop

Flowchart:



26/7/24

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Ex. No.: 2

Date: 26/9/2024

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: Input number of days

Input total days

Step 3: Compute years = Total days/365

Step 4: [compute remaining days]

Rem = Total days % 365

Steps: [compute months]

months = rem/30

Step 6: [compute remaining days]

Day = rem % 30

Step 7: print years, months and days left

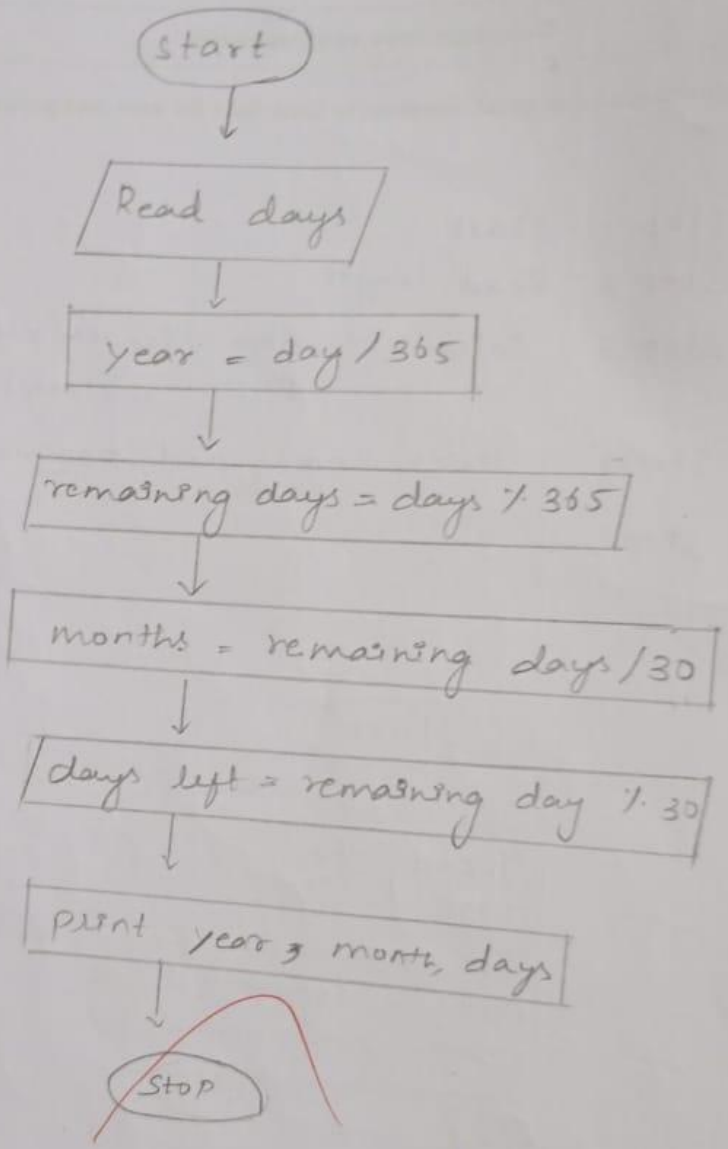
Step 8: Stop

Flowchart:

26/9/24

Exp No 2

Flow chart



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Ex. No.: 3

Date: 26/09/2024

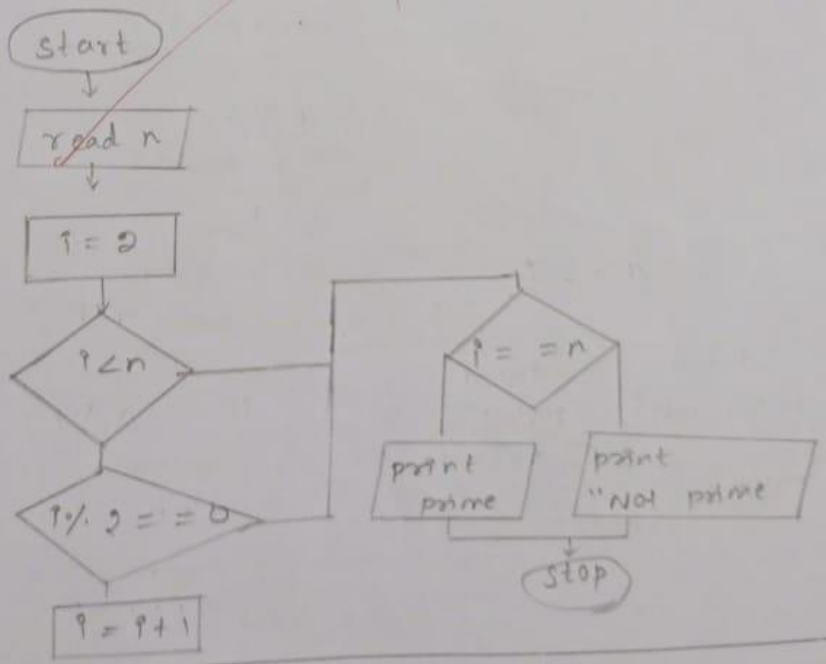
Prime Number

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

Algorithm:

Step 1: start
Step 2: read n
Step 3: If i = 2 and i < n, go to step 7
Step 4: i % 2 == 0, go to step 7
Step 5: i == n
Step 6: i = i + 1, go to step 3
Step 7: If i = n, print "not prime"
else print "prime"
step8 : stop

Flowchart:



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Ex. No.: 4

Date: 28/09/2024

Leap Year

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

Algorithm:

Step1 : start

Step 2 : Read year

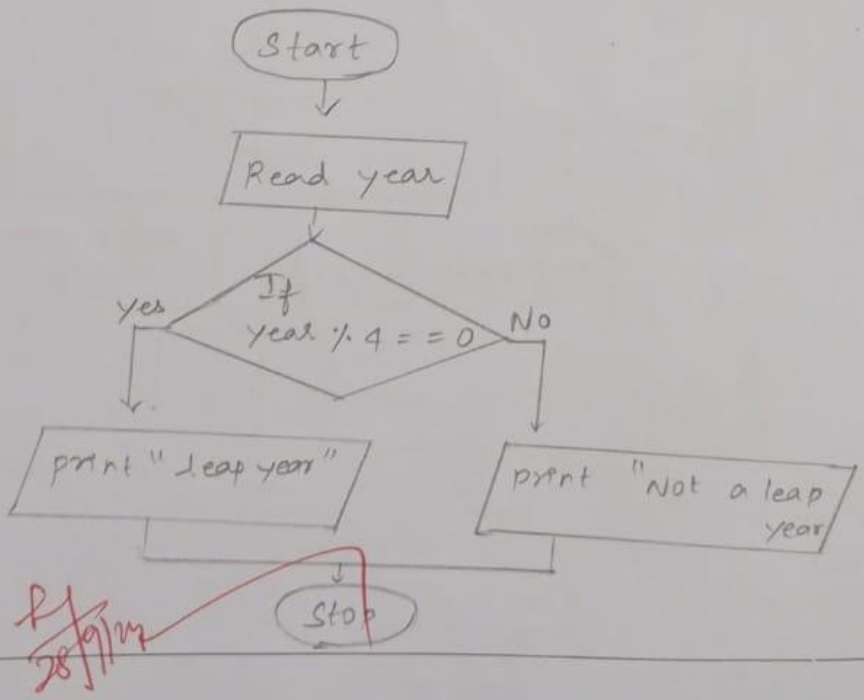
Step 3 : If year %.4==0 then it is leapyear

Step 4 : else year %.4 !=0 then not leap year

Step5 : print "leap year" or "Not leap year"

Step6 : stop

Flowchart:



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Ex. No.: 5

Date: 28/09/2024

Palindrome Number

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

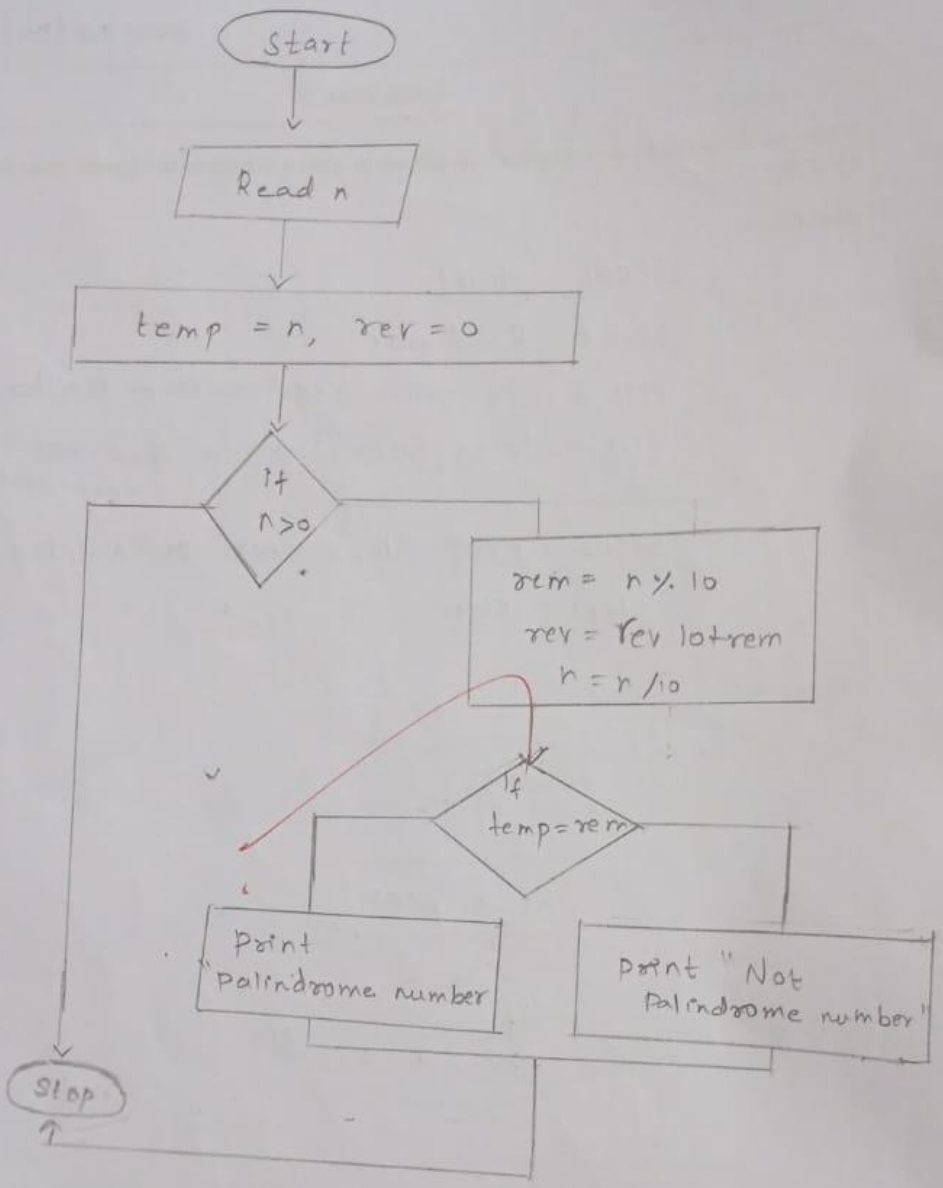
Algorithm:

Step 1 : Start
Step 2 : Read n
Step 3 : Declare temp = n, rev = 0
Step 4 : rem = n % 10
rev = rev * 10 + rem
n = n // 10
Step 5 : If (n > 0), go to step 4 to 6
Step 6 : If temp = rev then
print "palindrome number"
else print "Not palindrome number"

Flowchart: Step 7 : Stop

Flow chart

Exp NO: 5



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Ex. No.: 6

Date: 28/09/2024

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 n

Step 3: S=0 m=n

Step 4: Loop until n=0

r = n%

S = S+r

n = n/0

Step 5: If n!=0, goto step 4

else print "m, S"

Step 6: stop

Flowchart: