PROGRAMMING USING C

WEEK 0-ALGORITHM FLOWCHART

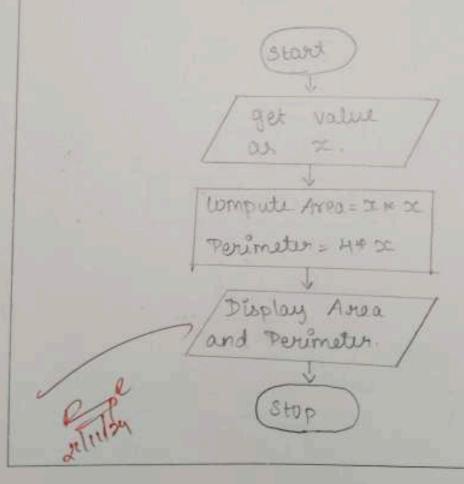
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Date: 3-10-2084

Calculate Area and Perimeter

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

Algorithm:



Date: 3-10-2024

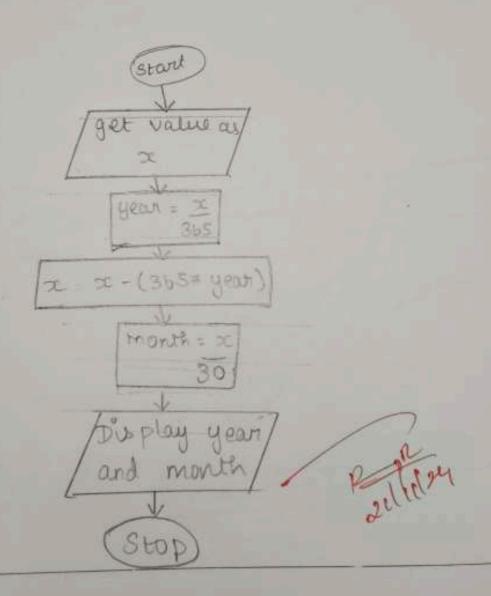
Days to Year Conversion

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

Algorithm: Step-1 Start

Step-2: get no. of days as sc Step-3: compute years = sc 1365 Step-4: x=x-(365* years) Step-5: compute month = x/30 Step-6: Display year and month

Step-7: Stop.



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: get x

Step-3: check whether sex=1, else go 5.

Step-4: Display not a prime

Step-5: Set n= (=)+1, k=2

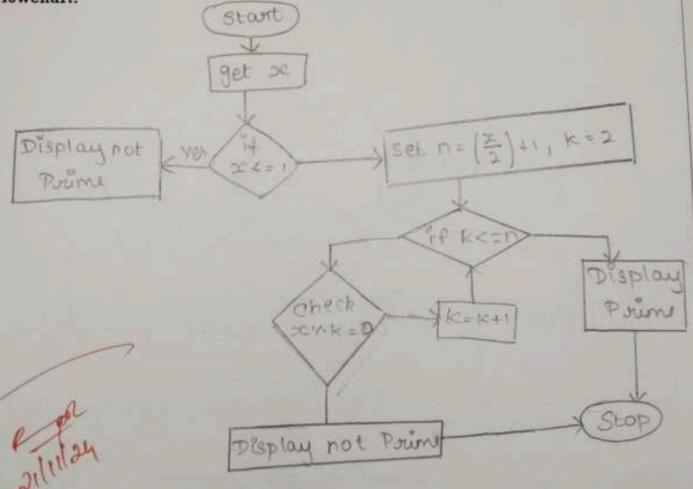
Step-6: if ken otherwise go 10

Step-7: check oc+k==0, otherwise go 9.

Step-8: Duplay not a prime . Set K=K+1 go to b.

Step-9: Display poune

Step-10 : Stop



Date: 3-10-2024

Leap Year

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

Algorithm:

Step-1; Start

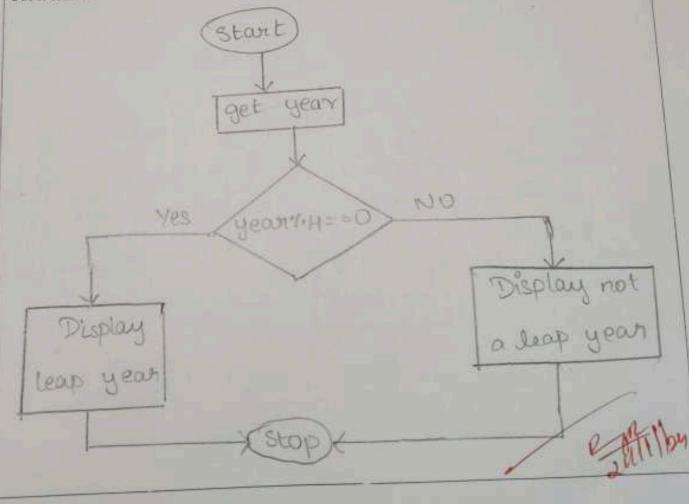
Step-2: get year

Step-3: check If (year 1.4==0)

Step-4: Du Diuplay leap year

Step-s: Else, Duplay not a leup year.

Step- 6: Stop.



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: get num

Step-3: Declare sev=0 & temporum = num

Step-4: Luc while loop (num!==0)

num = num-1.10

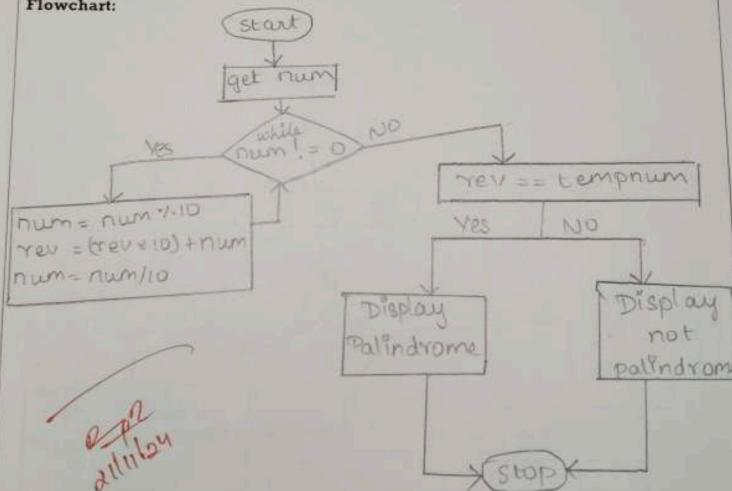
JEN = YEN * 10 + num

num = num | W

Step-5: check "+ (rev = = tempnum)

Step-6: Ef true display palindrome Step-7: else display not a palindrome

Step-8: Stop.



Date: 3-10-2024

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: get n

Step- 3: Initialize sum = 0

Step-4: use while loop (n1=0)

rem = n%101

Sum = Sum + rem

n = n/10

step-s: Display sum

Step- 6: End.

