Ex. No .: |

Date: 25/10/24

Calculate Area and Perimeter

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

Algorithm:

Step 1 - vstart

step 2 - Input hength (4)

Step3 - Area A = 1* L

step4 - calculate previoueter p=4 *1

Step 5 - point area and presimeter

steps - stop

Flowchart:

(Start

Area: LXL

herinete " 4 % 1

fraint area 4

stop

25/10/24

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2

***** GE23131 - Programming Using C Ex. No .: 2 Date: 25 10 24 Days to Year Conversion Write an Algorithm and draw a Flowchart to convert the given days into years & Algorithm: Man 1 - start Aten 2 - get the number of days from the user as a osten 3- To calculate the number of yrs, years = n 365 Atent - To calculate 1: 2 to get remaining days step 5 - To calculate the remaining days together no of months = 1/2 when 6 - perint number of years in no of months step 7 - viton Flowchart: Department of Computer Science and Engineering, Rajalakshmi Engineering College

Prime Number

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

Algorithm:

step 1 - start

istep 2 - get a number from the wer as or

Men3 - thek whether n < = 1, otherwise go to 5

stapy - display or is not a prime number

step 6 . set n = (42)+1, k=2

steps . if k = n otherwise go to 10

step 7 - Check 201. K=10, otherwise go to 9

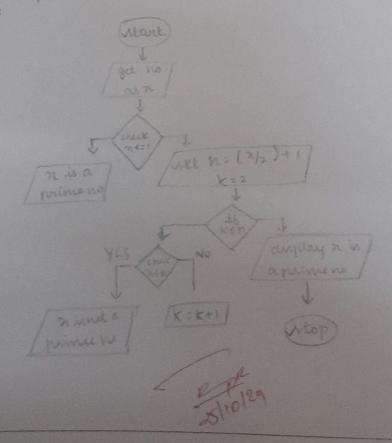
step 8. Display is not a prime number, go to

utepa-K=K+1, go tob

uter 10 - duplay or is a prime number

stap11 - Hop

Flowchart:



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4

GE23131 - Programming Using C Ex. No .: 14 Date: 25 10124 Leap Year Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not. Algorithm: step1-start steps - bet the year from the user asy Atep3 - check whether 4-1.4 =, wthermings to 5 step 4 - display y is a leap year. go tob Mep 5 - dirplay y is not a leap year step 6 - Stop Flowchart: input year M: year-1.4 Department of Computer Science and Engineering, Rajalakshmi Engineering College

Date: 25/10/24

Palindrome Number

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

Algorithm:

step 1 - start

Ateps - get a number from the user as z

vstep3 - set 2=2; siev=0

step 4. check whether a is not equal too, otherwingolo 8

Mep 5 - compute k = 2-1-10

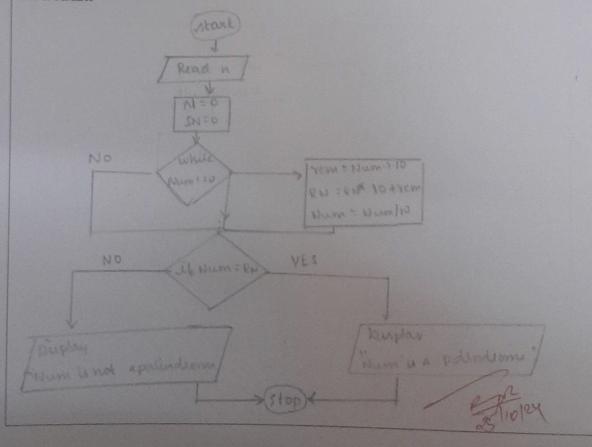
vstep6 - siev = siev * 10 +K

Mep7. Z=2/10, go to 4

step 9 - chat whether 4 = rev, otherwise go to 10.

step 9 - display given number is palindrome go tou

stepio - display given number is not palindum. Flowchart:



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Date: 25/10/24

Sum of Digits

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

Algorithm:

step 1 - start

step2 - get the number from theuses as n

step3 - net k =0

step 4. Chek wheather is not equal to 0, go to 8

Atep 5 - Compude y = 2011-10

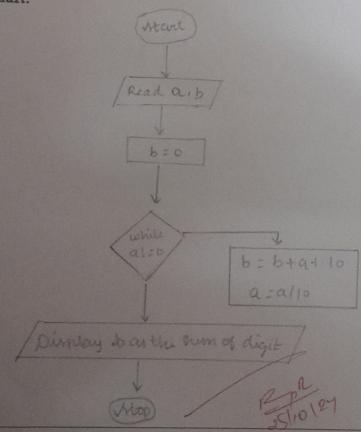
Mepb - K = Kty

step 7 - compute n = 21/10, go to 4

step8 - display k

step a - Atop.

Flowchart:



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