GE23131 - Programming Using C

Algorithm & Flowchart

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' from the User

Step: 3: In balize Axa and Perimeter of Square is Zero.

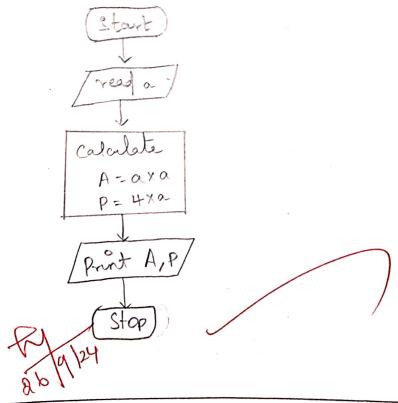
Step: 4: Calculate area as a XI and perPrieter as 4xa

and store in A and P.

step 5: Print area and Peremeter

step 6: Stop.

Flowchart:



Date: 26/9/24.

Days to Year Conversion

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

Algorithm:

Step: 1 start

Step: 2 Get total number of days

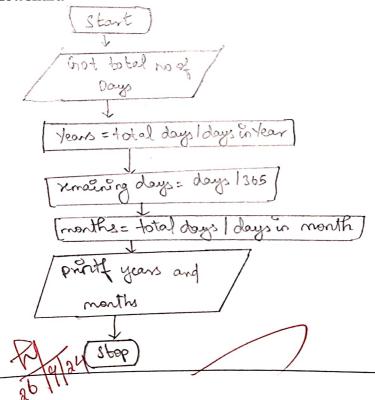
step:3 Initialize days in years to 365 and days in months to 30.

Step: 4 Years = total days / days in Year

Step: 5: months = todal days I days in month. Step: 6: Print Years and months

Stop. Step: 7:

Flowchart:



Date: 26/9/24

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 n from user

Step: 3 Set 9=2

step: 4 Check if NZ2 thengo to step5 else goto step6

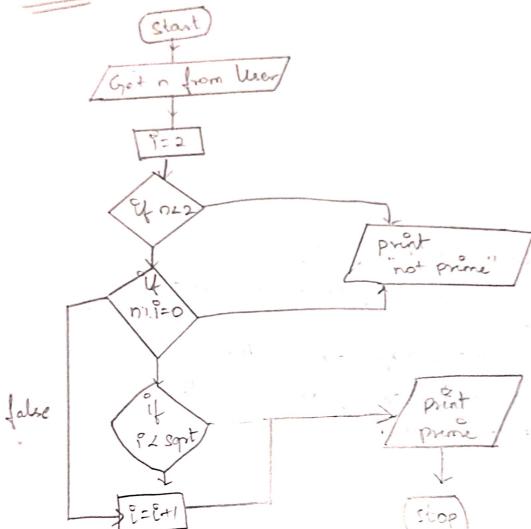
step: 5 printf "not prime" and go to step 8
step: 6 of ny. 2=0 print "not prime "else" print prime".
Step: 7 Repeat step 6 and 7 until P = sqrt (n)

Step: 7

stop. Step: 8

Flowchart:

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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:

Step 1: Start

Step 2: Cret year from the user.

Step 3: check wheather year! 4==0 and y 1.100! Dor y'1.400==0. If it is true then goto step 4

else go to steps.
step4: prent "leap year".
Step5: prent "not a leap year".

Step 6: stop.

Flowchart: purt leap A

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:

3

5

3

9

Step1: Start

Step2: Cret n forom user

Step3. Step p=0, a=n

Step 4: check wheather n>0, go to steps essego to step 7.

step 5. p=(p*10)+(n7.10)

step: b: n=nlus, go to step 4.

Step: 7: check wheather a = = p, trave go to step & else goto stepa.

Flowchart:

Step: 8: print palindrome, not palindrome.

Stop. Step: 9

flowchart. P=0 a=n if a==p P= p x 10+(n // 10)

GE23131 - Programming Using C

Ex. No.: 06

Date: 28/9/14

Sum of Digits

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

Algorithm:

Step1: start

Step 2: Cret n from the user

step3: Inthalize sun & equal to Zero Step4! Check NDO, got to Step5

step 5: sum = sum + Cn'1.10)
Step 6: n=n|10, go to step 4
step 7: print "sum".

Flowchart:

step8:

Flowhart:

