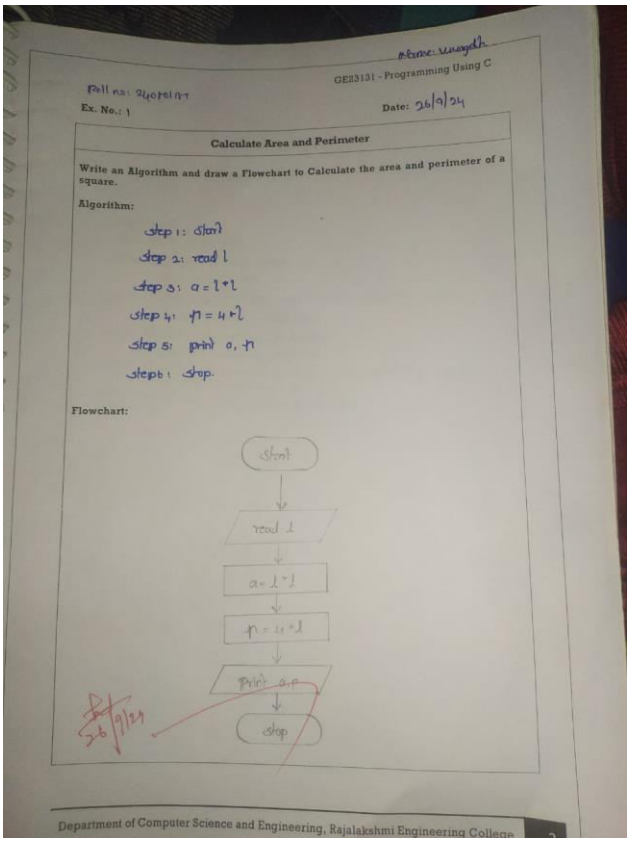
Week 1-0:

Name:magesh V

Reg no:240801187



Name: magesh

Roll no: 240801187

GE23131 - Programming Using C

Ex. No.: 1

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 l
step 3: a = l*l
step 4: p = 4*l
step 5: print a, p
step 6: stop.

Flowchart:

Name: V. Harish

Roll no: 240701187

GE23131 - Programming Using C

Ex. No.: 2

Date: 24/9/24

Days to Year Conversion

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

Algorithm:

Step1: start

Step2: Input no. of days

Step3: Calculate the no. of years
years = days/365

Step4: Calculate the remaining days after calculating years
remaining days = days%365

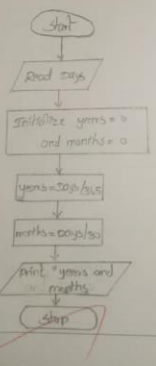
Step5: Calculate the number of months
months = remaining days/30

Step6: Calculate the remaining days after calculating months
days left = remaining days%30

Step7: Output the years, months & days left.

Step8: stop.

Flowchart:



24/9/24

Name: V. Jayesh

GE23131 - Programming Using C

Roll number: 240801187

Ex. No.: 6

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:

Step 1: Start

Step 2: Get n, print the user

Step 3: Initialize sum is equal to zero

Step 4: check n>0 true go to step 5 else go to step 6

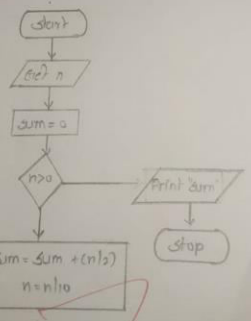
Step 5: sum = sum + (n%10)

Step 6: n=n/10, go to step 4

Step 7: Print "sum"

Step 8: Stop.

Flowchart:



28/9/24

Name: V. Nagah

Roll no: 240801187

GE23131 - Programming Using C

Ex. No.: 5

Date: 28/9/24

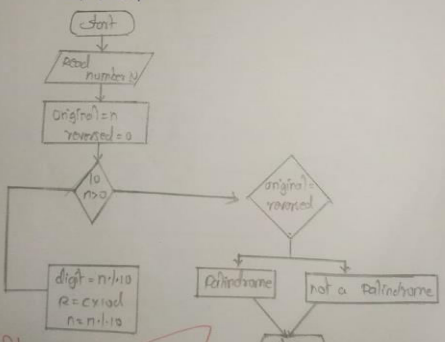
Palindrome Number

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

Algorithm:

Step 1: start
Step 2: Read the Number N
Step 3: Initialize
  set original = n and reversed = 0
Step 4: while n > 0
  :) set digit = n mod 10
  :) update reversed = reversed x 10 + digit
  :) update n = n/10
Step 5: if original = reversed
  :) print "Palindrome"
Step 6: Else
  :) print "not Palindrome".
Step 7: stop.

Flowchart:



28/9/24

Name : V. Nagesh

Roll no: 240801187

GE23131 - Programming Using C

Ex. No.: 4

Date: 28/7/24

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: Read year

Step 3: rem = year % 4

Step 4: if [rem == 0] then

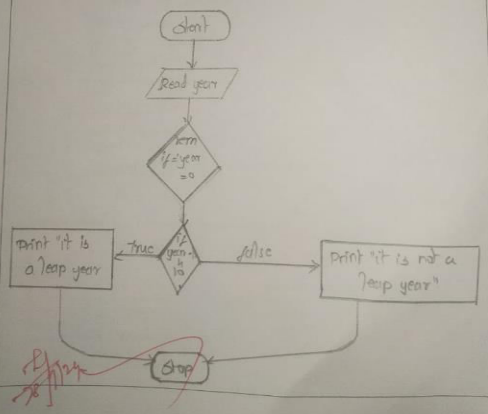
print "it is a leap year"

else

print "it in not a leap year"

Step 5: stop.

Flowchart:



Name: V.nagah

Roll no: 240501187

CE23131 - Programming Using C

Ex. No.: 3

Date: 26/7/24

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: Read n
Step 3: set f=1
Step 4: If n=1 then
Print "n is not a prime number"
Go to Step 8.
Step 5: For i=2 to n-1
Step 6: If n%i==0 then
Set f=1 & break else go to step 5
Step 7: If f==1 then
Print "n is not a prime number"

Flowchart: