Week 1-0

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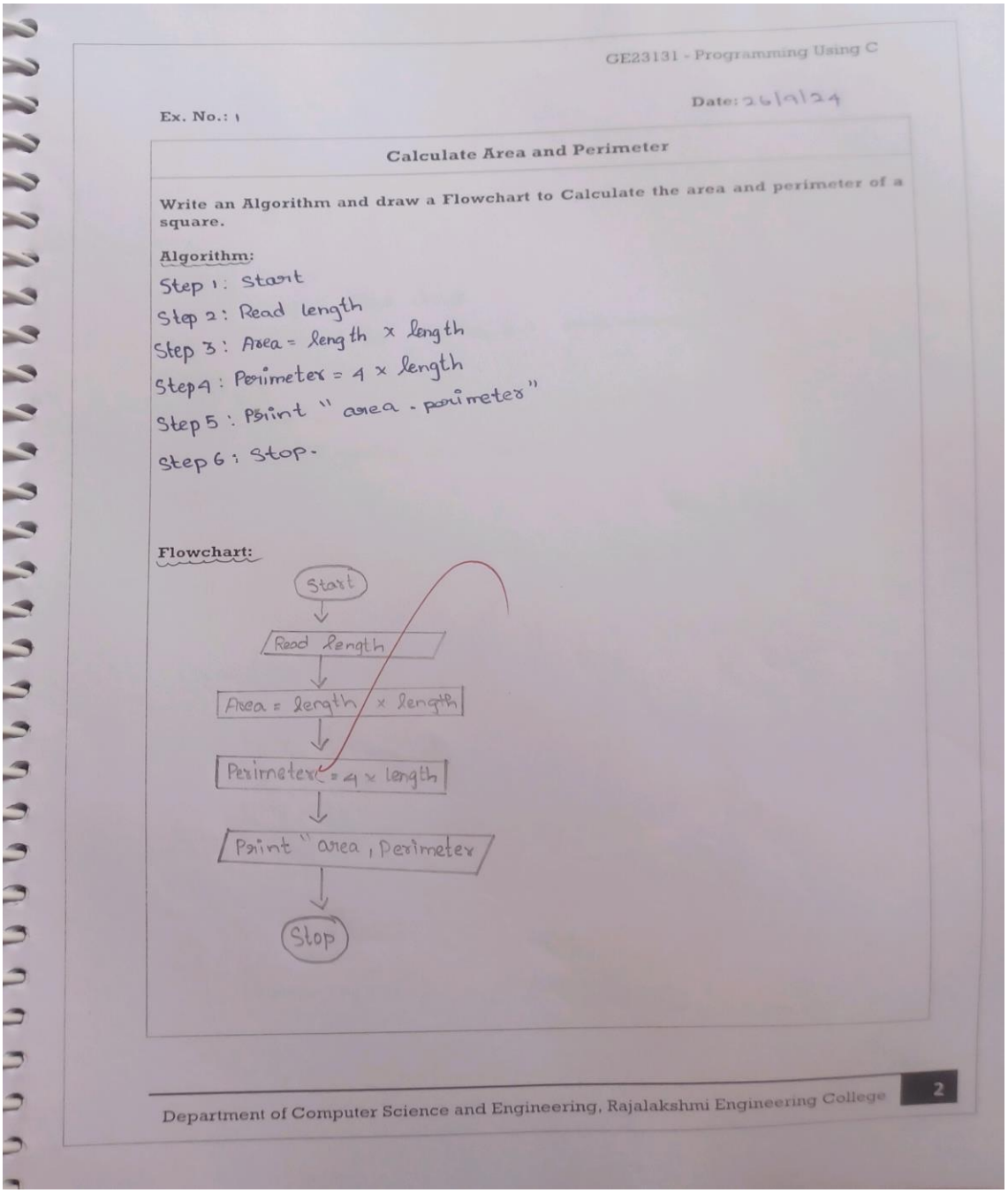


GE23131 - Programming Using C

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 length
Step 3: Area = length x length
Step 4: Perimeter = 4 x length
Step 5: Print " area - perimeter"
Step 6: Stop.

Flowchart:

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

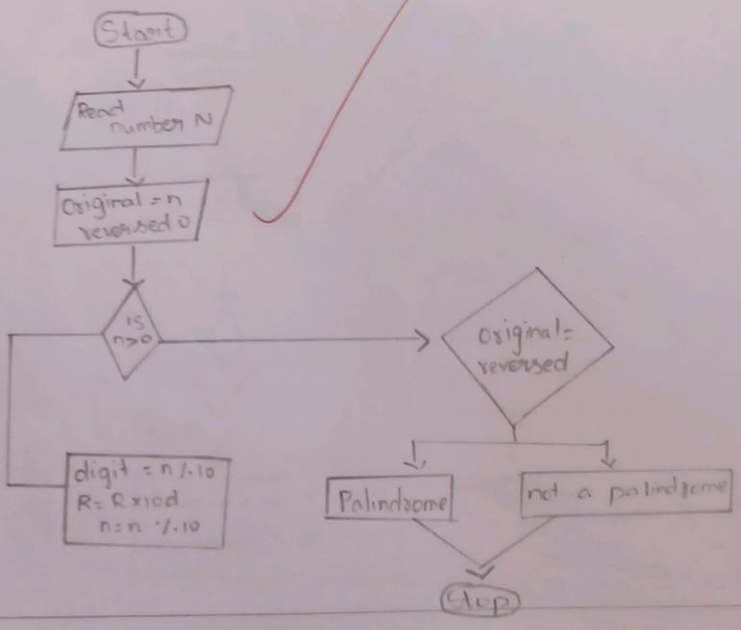
Step 4: while n > 0
-) Set digit = n mod 10
-) update reversed = reversed x 10 + digit
-) update n = n / 10

Step 5: if Original = reversed
-) Print "Palindrome"

Step 6: Else:
-) Print "not Palindrome".

Step 7: Stop.

Flowchart:



Ex. No.: 2

Date: 26/9/24

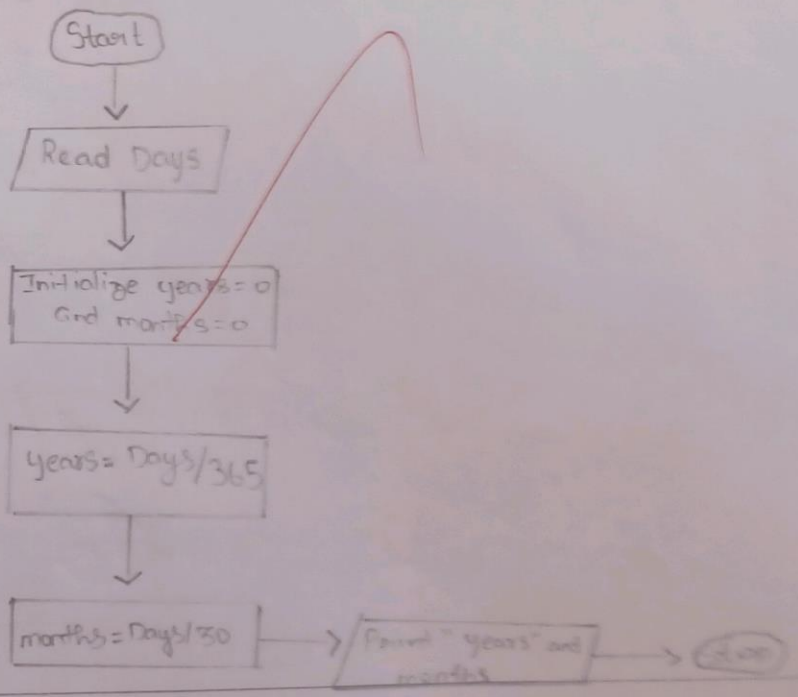
Days to Year Conversion

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

Algorithm:

Step 1 : Start
Step 2 : Input Read days
Step 3 : Initialize years = 0 and months = 0
Step 4 : year = Days / 365
Step 5 : months = Days / 30
Step 6 : Print "years" and "months"
Step 7 : Stop.

Flowchart:



Ex. No.: 3

Date: 26/9/24

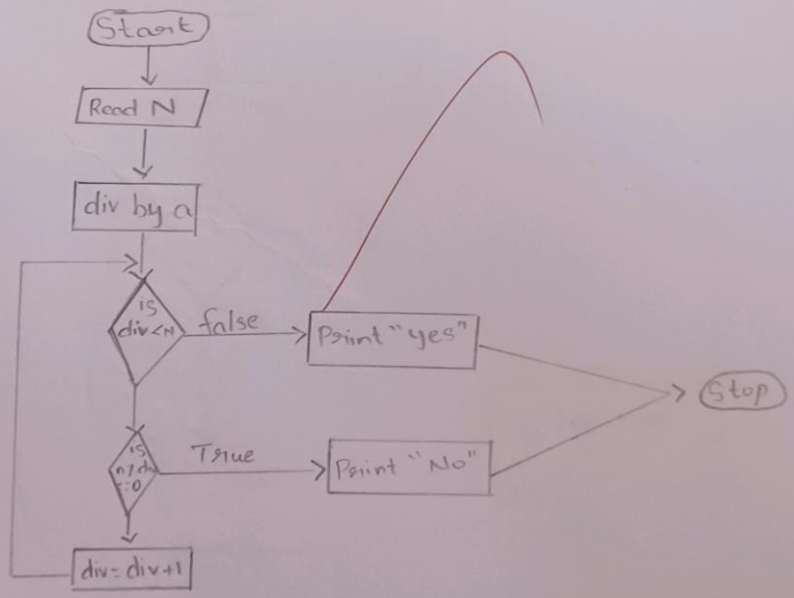
Prime Number

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

Algorithm:

Step 1 : Start
Step 2 : Read n
Step 3 : Set t=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:



Ex. No.: 3 Date: 26/9/24

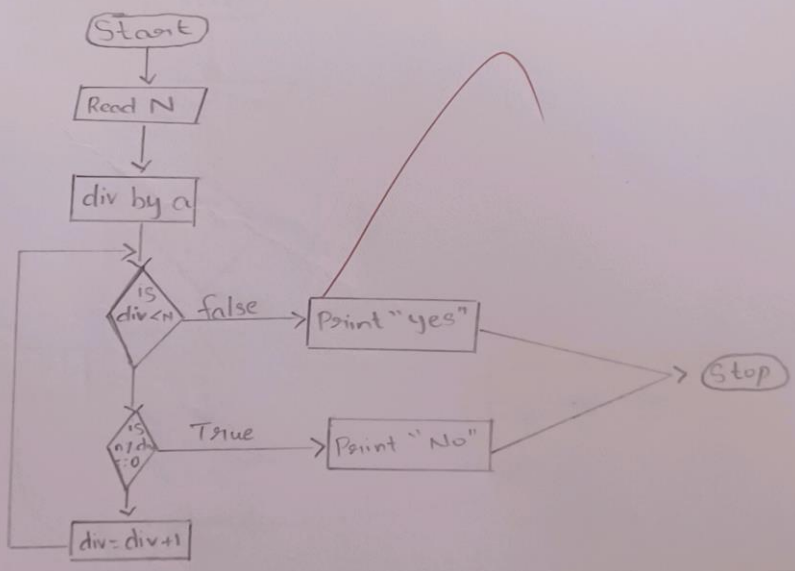
Prime Number

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

Algorithm:

Step 1 : Start
Step 2 : Read n
Step 3 : Set t=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:



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, from 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: