Programming Using C Week-0

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Ex. No .: 1

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: Start

Step 2: Read length

Otep 3: Calculate Length x breadth

Step 4: Calculate

Perimeter = 4 x length Step 5: Display the area and perimeter

Stepb: Stop.

Flowchart:

Display area and perimeter

Date: 25/10/24

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: Get Days

Step 3: Calculate

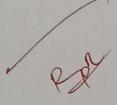
year = days / 365

Step4: Calculate

month = days 30

Step 5: Print 'year, month"

Step 6: Stop.



Date: 25 10 24

Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime

Algorithm:

Step 1: Start

Step 2: Read n.

Otep 3: Factorial = 1

Step 4: If n == 1 then "print n is not a prime no!

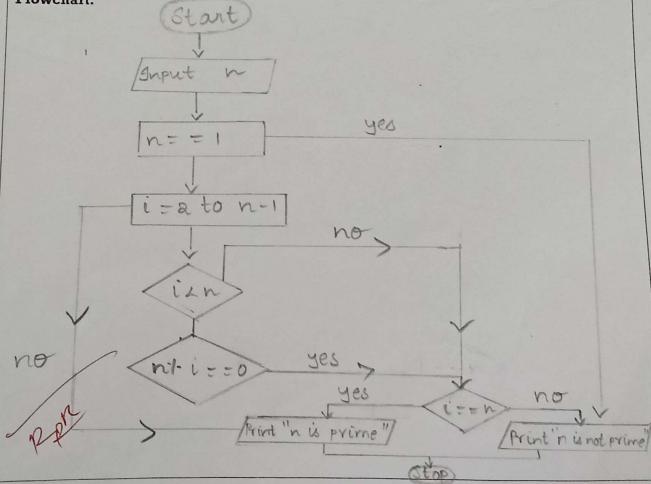
Step 5: For i=2 to n-1

Step 6: if n-1. i == 0 then f=1 and break

else i=2 to n-1

Step 7: if f == 1 then print"n is not prime number" else print "n is prime number"

Step 8: stop.



Ex. No.: 4

Date: 25 10 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

Stepa: Read year

otep3: Calculate rem = year 1. 4

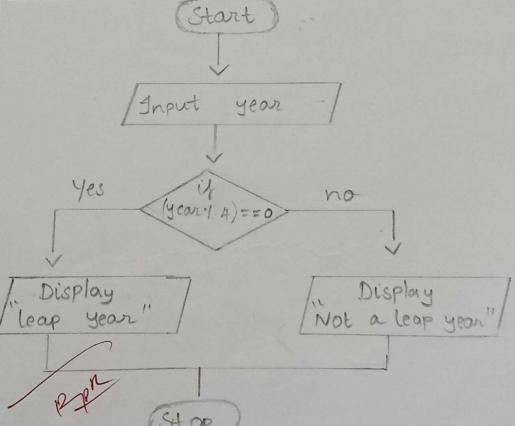
step 4: if (rem == 0) then

print "leap year"

else.

print Not a leap year"

Step: Stop.



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

Step 2: Read n

Step 3: Reversed integer is in reversed

variable using while (n!=0)

step 4: Calculate rem = n.1.10;

otep 5: if (orginal = = reversed) display the "Num is palindrome". else display the "num is not a palindrome"

Step 6: Otop.

Flowchart:

while NO rem = Num 1.10 RN = RN + 10+ rem Num is a palindrome" to not a palindrome"

Ex. No.: 6

Date: 25/10/24

Sum of Digits

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

Algorithm:

Step 1: Start.

otepa: Read a as a user input, b as o

Step 3: Use while loop and a! = 0

Step 4: Calculate sum b=b+a·1.10 and

devrease a = a 10

Step 5: Display bas sum of digit

step 6: Stop.

