Ex. No.: 1 **Date:**

Calculate Area and Perimeter

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

Algorithm:

Step 1 : Start the program

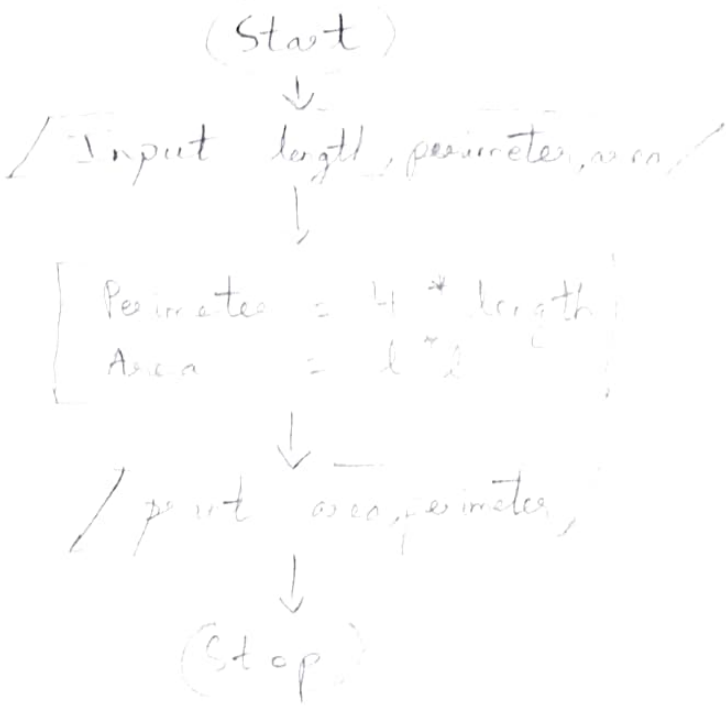
Step 2 : Input length

Step 3 : perimeter = 4 * length , area = l * l

Step 4 : print area , perimeter

Step 5 : Stop

Flowchart:



Date:

Ex. No.:

Days to Year Conversion

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

Algorithm:

Step 1 : Start

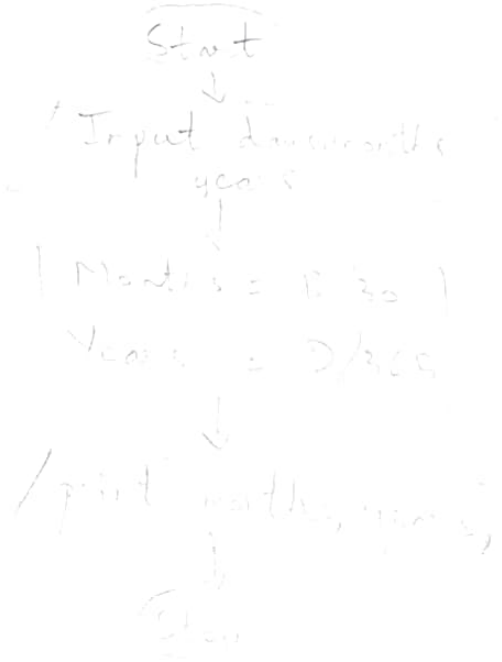
Step 2 : Input days

Step 3 : months = D/30, years = D/365

Step 4 : print years, months

Step 5 : Stop

Flowchart:



Ex. No.:

Date:

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 : Input variable 'n', count from 0
Step 3 : Check if the no. is not 1
Step 4 : Start a loop from 2
Step 5 : check whether n is divisible by i
Step 6 : print prime
Step 7 : Display not prime
Step 8 : End

Flowchart:

Ex. No.: Date:

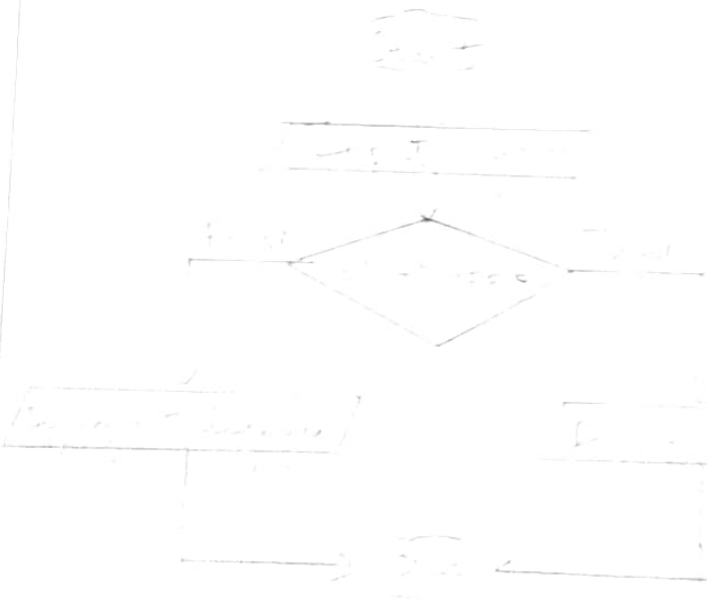
Leap Year

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

Algorithm:

step 1 : start
step 2 : Input year
step 3 : If year % 4 == 0
go to step 4 if not step 5
step 4 : display leap year
step 5 : display not leap year
step 6 : stop

Flowchart:



Ex. No.: **Date:**

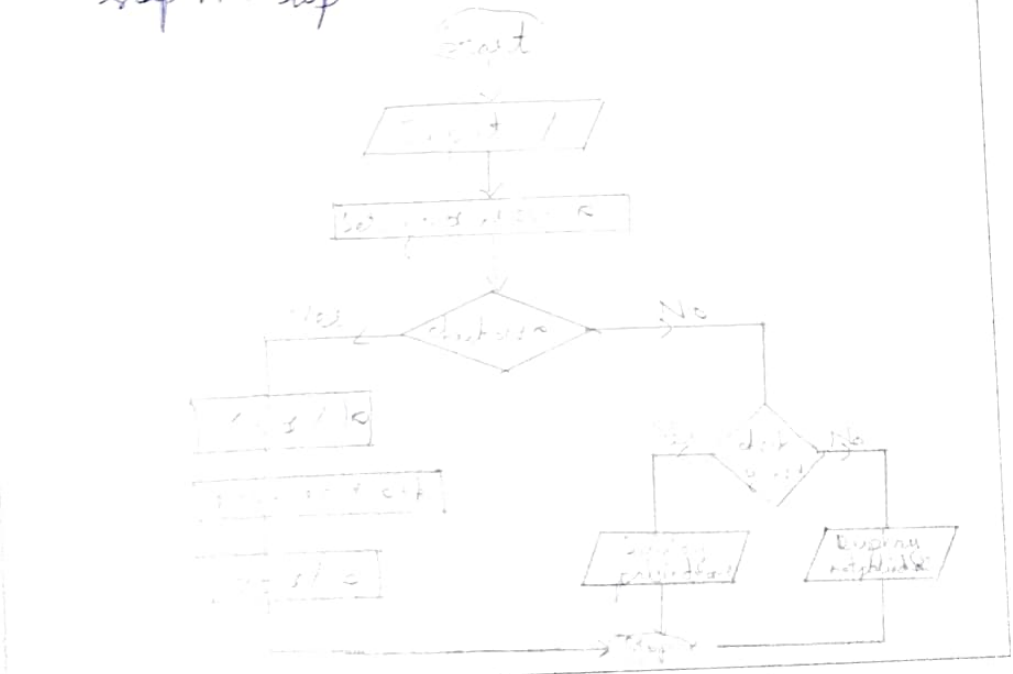
Palindrome Number

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

Algorithm:

Step 1: Start
Step 2: Input X
Step 3: Set y = x, rev = 0
Step 4: Check If x != 0, otherwise go to step 8
step 5: compute K = x % 10
Step 6: rev = rev x 10 + K
step 7: x = x / 10, go to step 4
step 8: Display the given no. as palindrome
step 10: Display given no. as not palindrome
step 11: Stop

Flowchart:



Date:

Ex. No.:

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: Input x
Step 3: Set K = 0
Step 4: check If x != 0, goto step 8
Step 5: compute y = x % 10, Go to step 4
Step 6: K = K + Y
Step 7: compute X = X/10, goto step 4
Step 8: Display K
Step 9: Stop

Flowchart: