Ex. No.: **Date:**

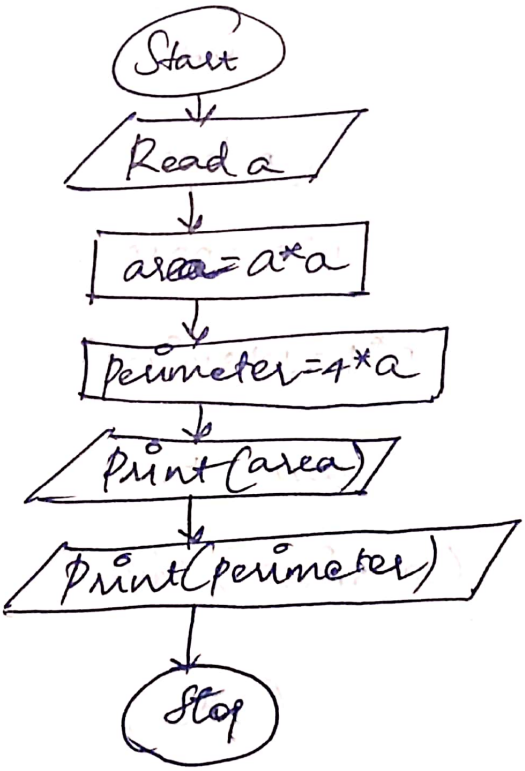
Calculate Area and Perimeter

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

Algorithm:

Step 1: Start
Step 2: Input the length(a) of the Square
Step 3: calculate the area = a*a
Step 4: Perimeter = 4*a
Step 5: Print(perimeter)
Step 6: Print(area)
Step 7: Stop.

Flowchart:



Ex. No.:

Date:

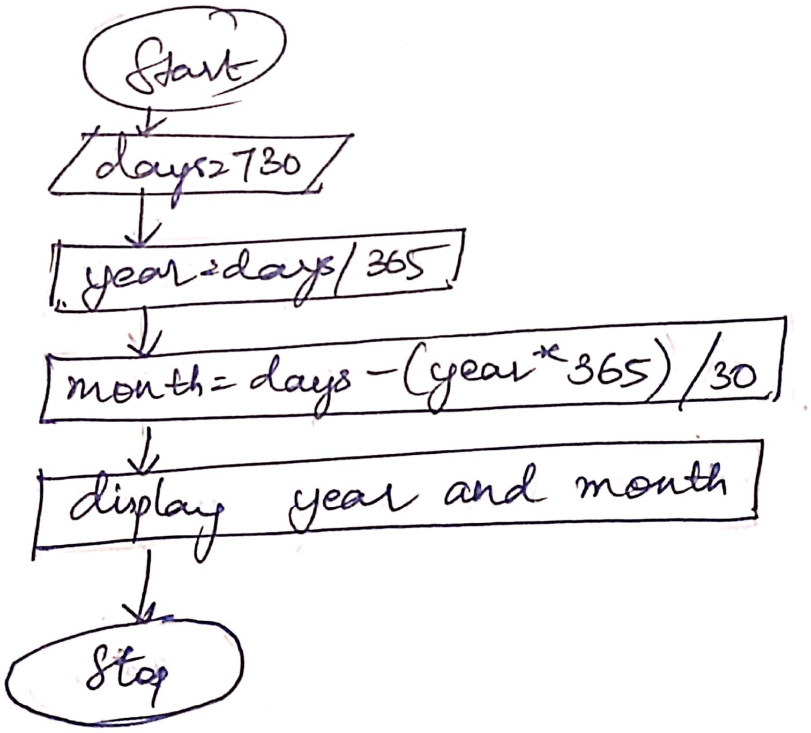
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: get days
Step 3: years = days / 365
Step 4: Months = days - (years * 365 / 30)
Step 5: Display year and month
Step 6: Stop

Flowchart:



Ex. No.: **Date:**

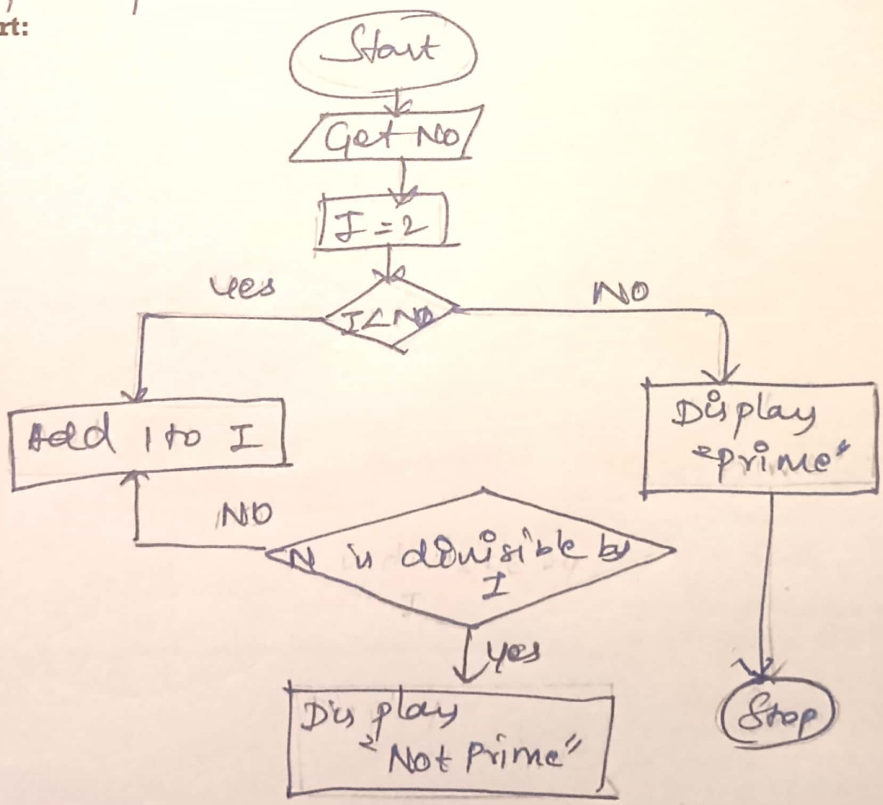
Prime Number

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

Algorithm:

Step 1: Start
Step 2: Read Value n
Step 3: Set i=1 Count=0
Step 4: if i<=n, if true go to Step5, eye go to Step8
Step 5: check the condition n%.i==0 if true then go to Step6, go to
Step 6: Set Count count+1
Step 7: i=i+1 go to Step4.
Step 8: check count, if count=2 display prime not display it is not prime.
Step 9: Stop.

Flowchart:



Ex. No.: **Date:**

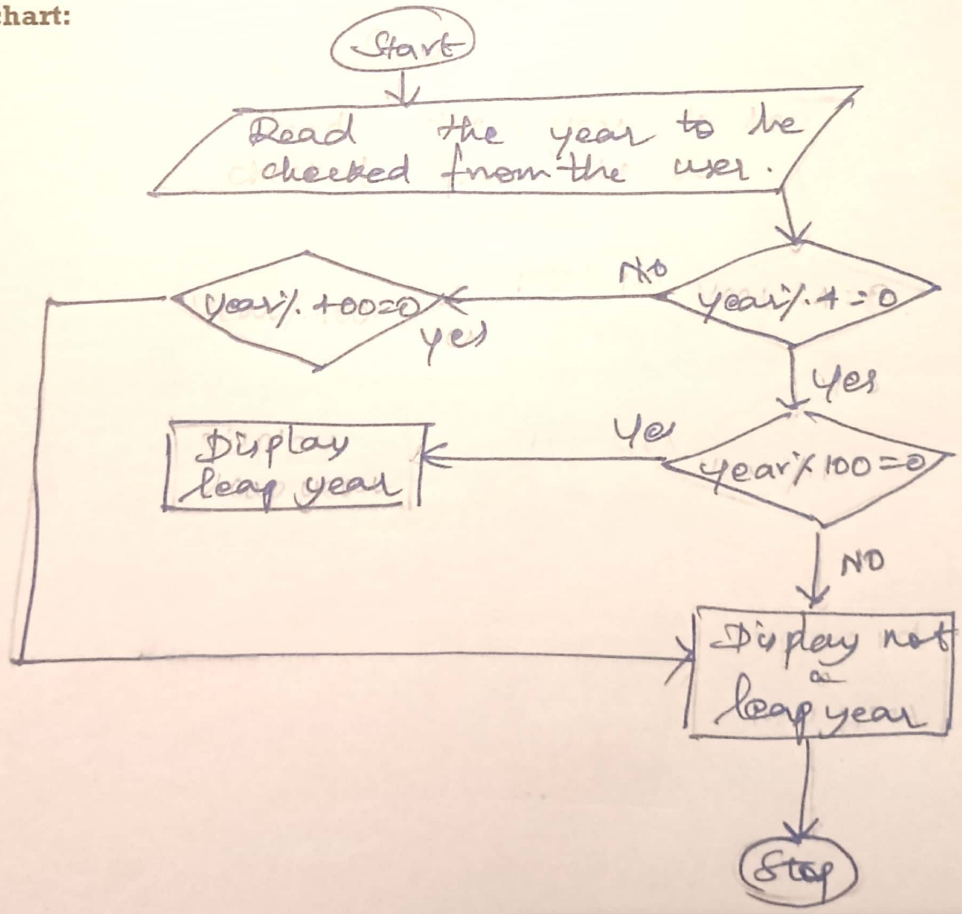
Leap Year

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

Algorithm:

Step 1: Start
Step 2: read the value of the year to be checked from the user.
Step 3: Assign the value to a variable say year
Step 4: If (year%4 = 0 and year%100 != 0) or year%400 = 0
Step 5: Display leap year
Step 6: else display not leap year
Step 7: Stop

Flowchart:



Ex. No.: **Date:**

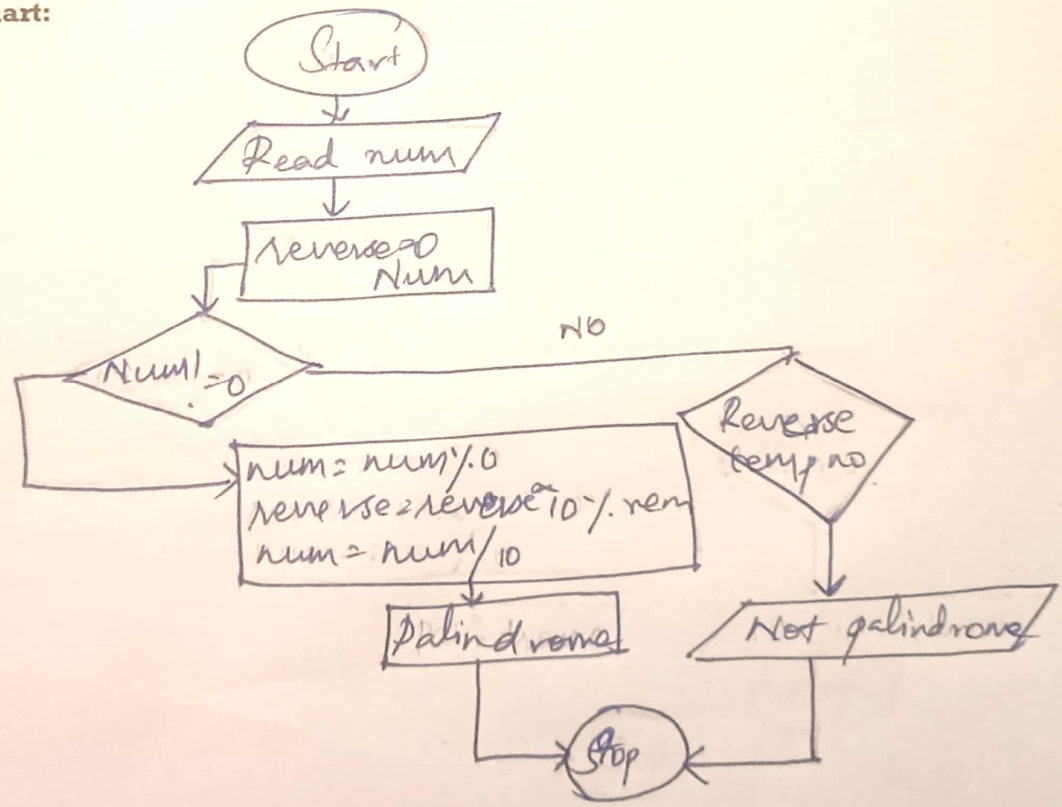
Palindrome Number

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

Algorithm:

Step 1: Start
Step 2: Read the input from the user
Step 3: Declare and initalize the variable reverse and assign input to a variable temp num = Num
Step 4: Start while loop temp Num != 0 become false
a) rem = num % 10
b) reverse = reverse * 10 + rem
c) num = num / 10
Step 5: check if reverse = tempno
Step 6: if true no is a
Step 7: if not true no is not palindrome
Step 8: Stop

Flowchart:



Ex. No.: **Date:**

Sum of Digits

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

Algorithm:

Step1: Get the number
Step2: Construct a Variable to hold the total & initialize it to
Step3: Repeat Steps 2 and 3 until the result is not 0
Step4: Divide the number by 10 to obtain the right most digit using the remaining percent Operator then add it to the total
Step5: Use the / operator to divide the integer eliminate the last digit on the right
Step6: Display the total.

Flowchart: