Ex. No.: 1 Date: 15-10-2024

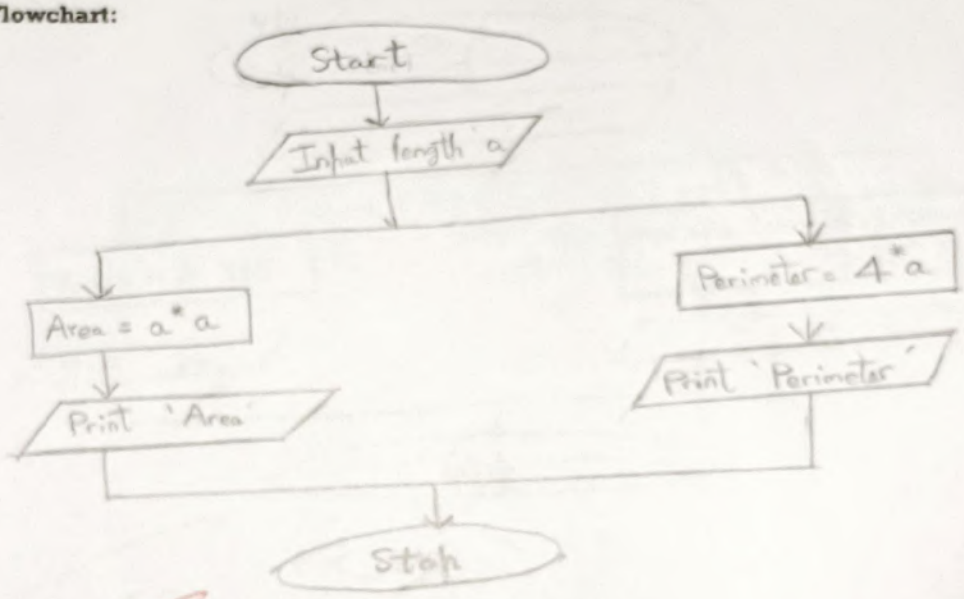
Calculate Area and Perimeter

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

Algorithm:

Step 1: Start
Step 2: Get the length of side 'a'
Step 3: A = a * a
Step 4: Print A as 'Area of Square'
Step 5: P = 4 * a
Step 6: Print P as 'Perimeter of Square'
Step 7: Stop

Flowchart:



RPR
22/10/24

Ex. No.: 11

Date: 19-10-2024

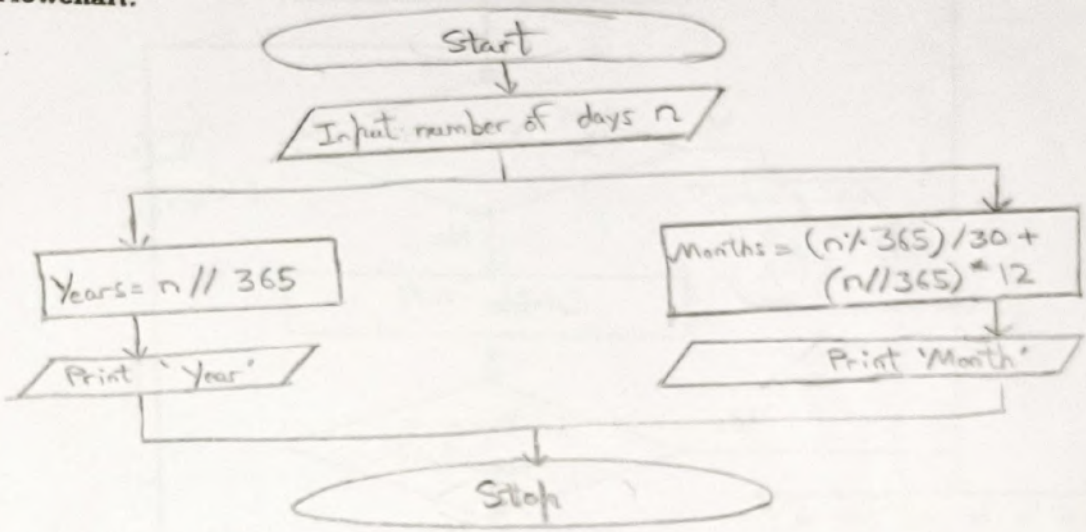
Days to Year Conversion

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

Algorithm:

Step 1 : Start
Step 2 : Get the given number of days 'n'
Step 3 : Y = n // 365
Step 4 : Print Y as 'Number of years'
Step 5 : M = (n % 365) / 30 + (n // 365) * 12
Step 6 : Print M as 'Number of months'
Step 7 : Stop

Flowchart:



DPK
22/10/24

Ex. No.: 111 **Date:** 18.10.2024

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 given number n
Step 3 : If n is not an integer, then print "n is not a prime" and go to step 7 else go to step 4
Step 4 : If n is less than or equal to 1, then print "n is not a prime number" and go to step 7 else go to step 5
Step 5 : Set i = 2 to n-1
Step 6 : If n%i=0 for all values of i, then print "n is not a prime number" or else print "n is a prime number"
Step 7 : Stop

Flowchart:

EPR
22/10/24

Ex. No.: IV **Date:** 18-10-2024

Leap Year

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

Algorithm:

Step 1 : Start

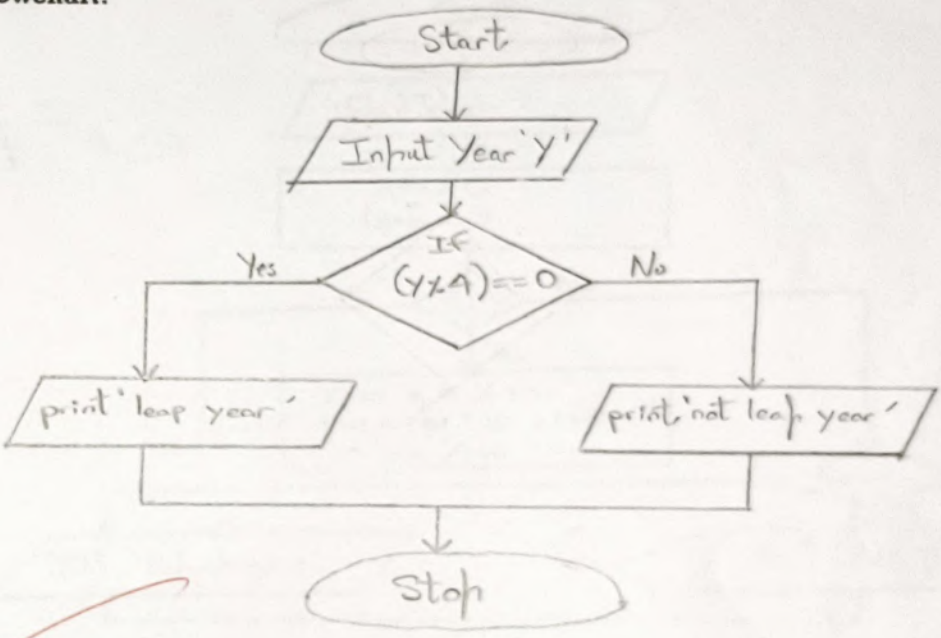
Step 2 : Read year Y

Step 3 : Set r = Y % 4

Step 4 : If r == 0, then print 'Y is a leap year' else print 'Y is not a leap year'

Step 5 : Stop

Flowchart:



22/10/24

Ex. No.: V **Date:** 18.10.2024

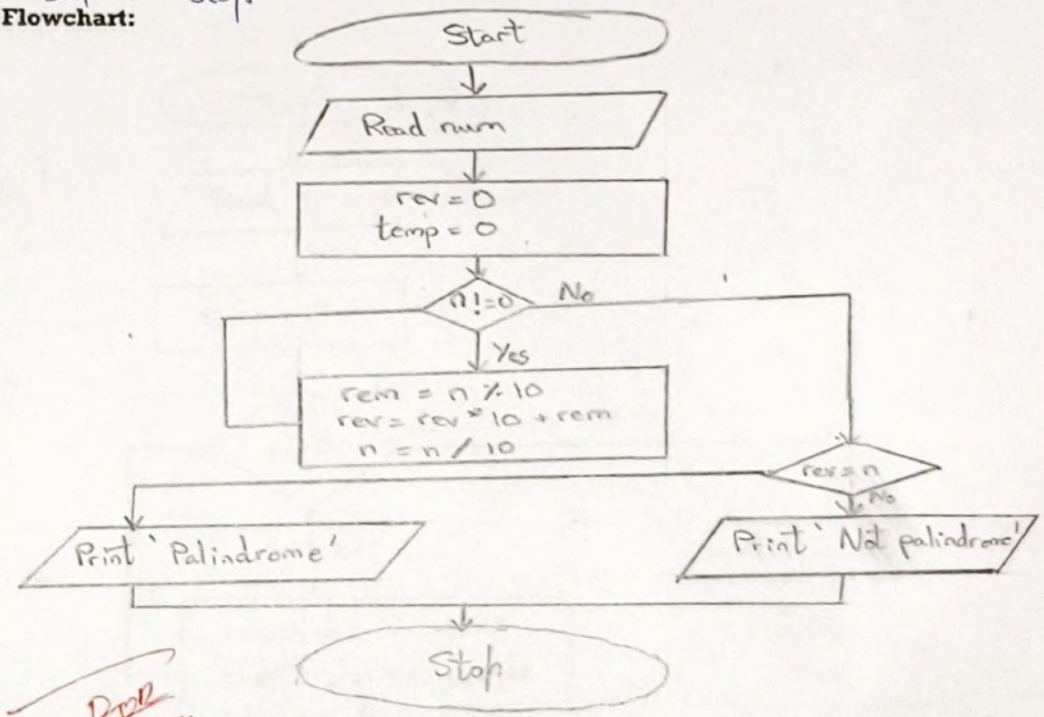
Palindrome Number

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 : Declare temp = n, rev = 0
Step 4 : rem = n % 10
Step 5 : rev = rev * 10 + rem
Step 6 : n = n/10
Step 7 : If n > 0 then go to steps 4 to 6 else go to step 8
Step 8 : If temp = rev then print 'n is a palindrome number'
else print 'n is not a palindrome number'
Step 9 : Stop

Flowchart:



Deepa 22/10/24

Ex. No.: VI **Date:** 18-10-2024

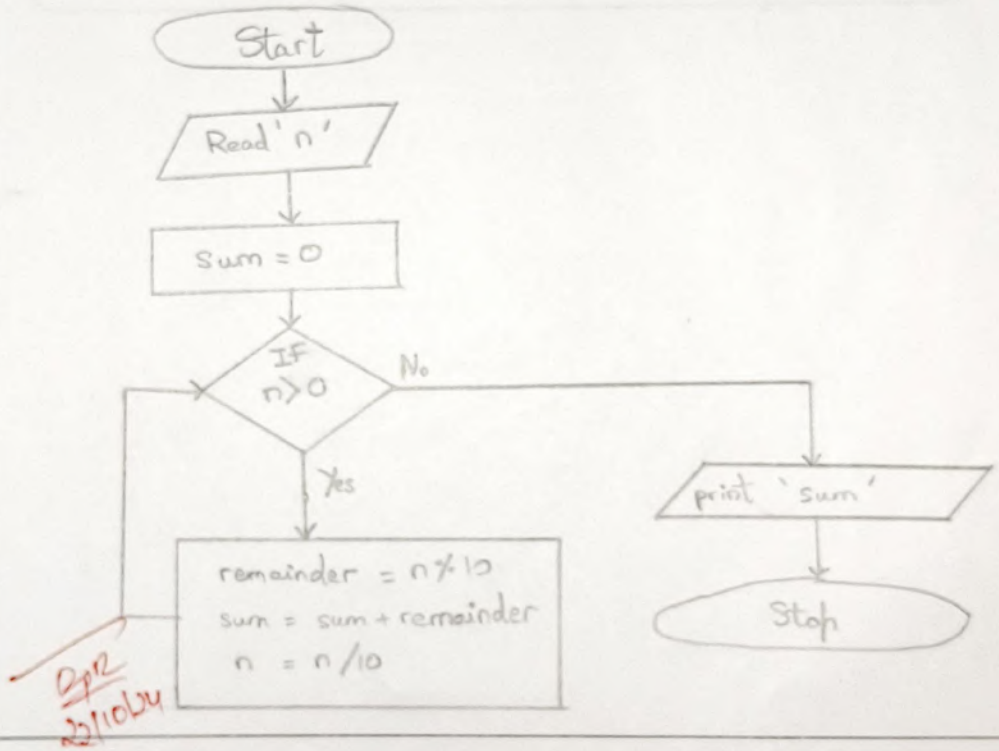
Sum of Digits

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

Algorithm:

Step 1 : Start
Step 2 : Read number n
Step 3 : Declare sum = 0
Step 4 : remainder = n % 10
sum = sum + remainder
n = n / 10
Step 5 : If n > 0 then go to step 4 else go to next step
Step 6 : Print 'Sum'
Step 7 : Stop

Flowchart:



Dpt 22/10/24