Ex. No.: I

Date: 26/9/24

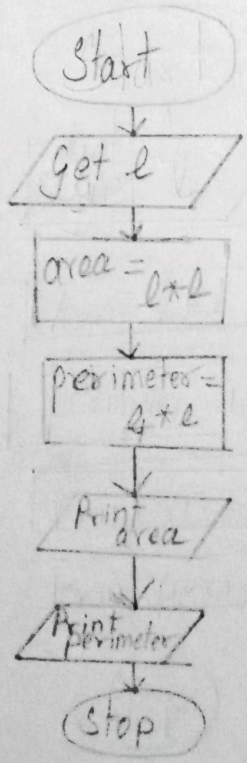
Calculate Area and Perimeter

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

Algorithm:

Step 1 : Start
Step 2 : Get length as l
Step 3 : Compute area = l * l
Step 4 : Compute area perimeter = 4 * l
Step 5 : Print area
Step 6 : Print perimeter
Step 7 : Stop

Flowchart:



✓ 6/12/24.

Ex. No.: 1

Date: 26/9/24

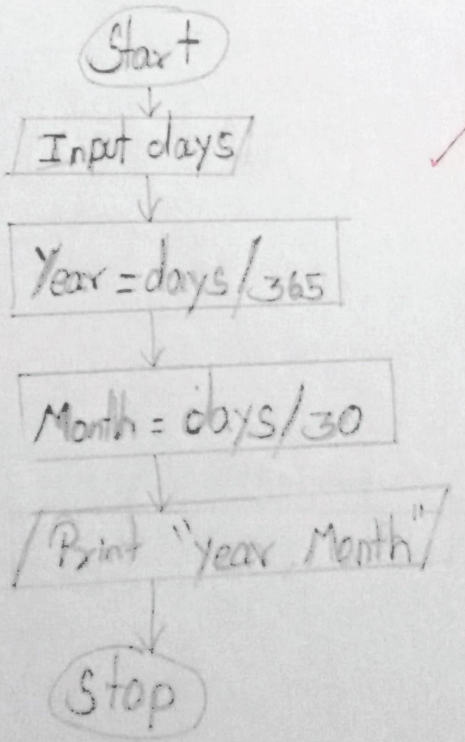
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: Get Days
Step 3: Calculate
Year = days / 365
Step 4: Calculate
month = days / 30
Step 5: print "year, month".
Step 6: Stop

Flowchart:



Prob
6/12/24.

Ex. No.: 1B1 **Date:** 3/10/24

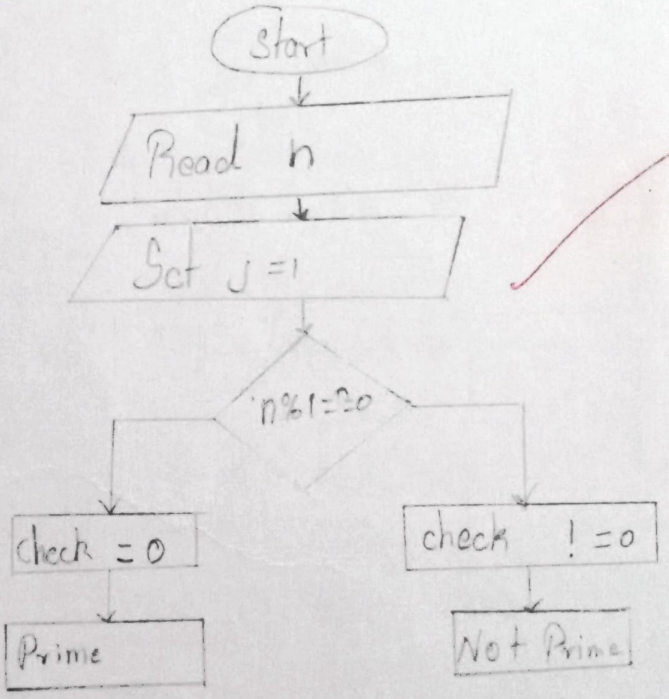
Prime Number

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

Algorithm:

Step1 : Start
step2: Read n
step3: Set j = 1
step4: if n==1 then print "n is not prime number
step5: for i = 2 to n-1
step6 : if n%i == 0 then Set f = 1 and break
step7: if f == 1 then print n is not prime number
else
print n is not prime number
step8: Stop

Flowchart:



6/12/24

Ex. No.: 14 **Date:** 3/10/24

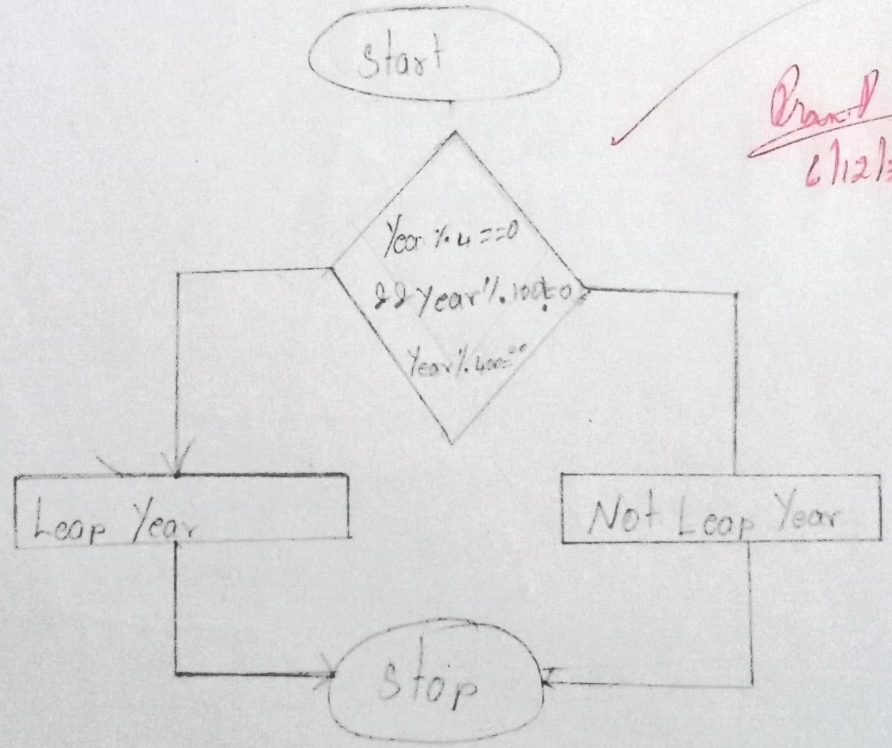
Leap Year

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

Algorithm:

step1 : Start
step2 : Read year
step3 : rem = year % 4
step4 : if (rem == 0) then
print 'leap year'
else
Print 'not leap year'
step5 : Stop

Flowchart:



Prakash 6/12/24

Ex. No.: V **Date:** 3/10/24

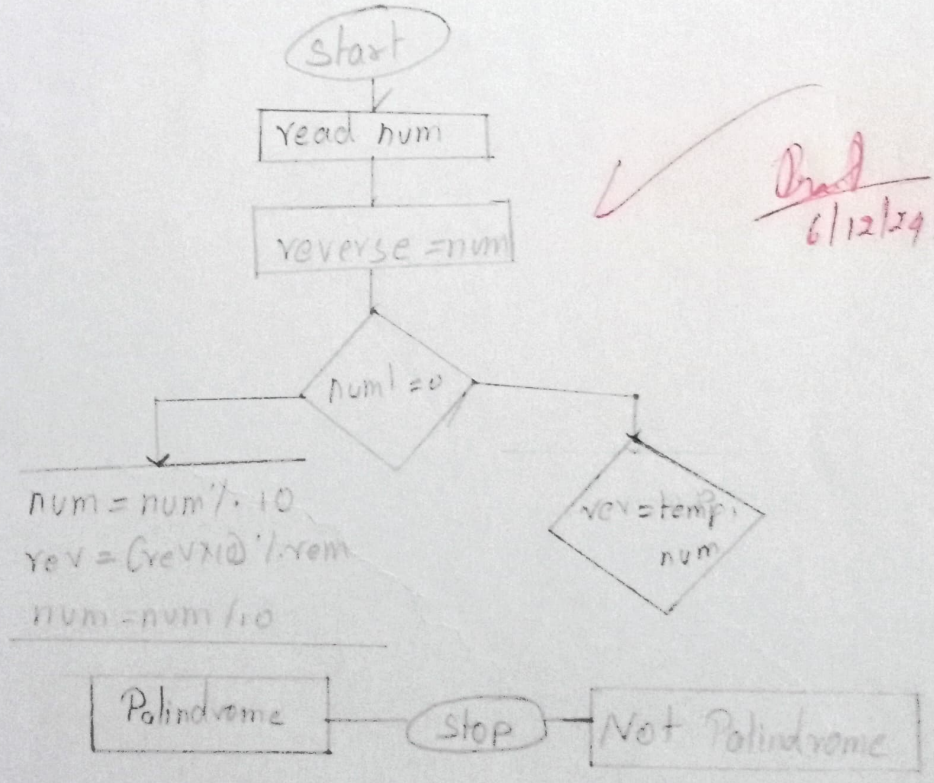
Palindrome Number

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 number
Step 3: Declare p = 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 goto 4
Step 8: if (tep == rev)
Step 9: print it is a palindrome number
Step 10: print it is not a palindrome number

Flowchart:



6/12/24

Ex. No.: VI **Date:** 3/10/24

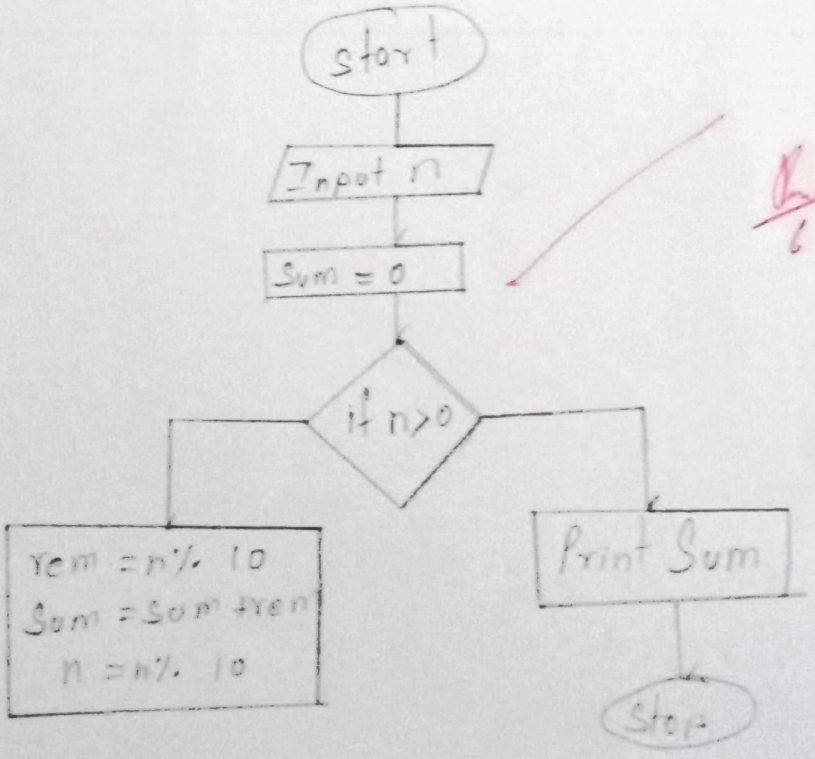
Sum of Digits

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

Algorithm:

step 1: Start
step 2: Read 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 6
step 6: print sum
step 7: Stop

Flowchart:



6/12/24