Ex. No.: 1 **Date:** 18/10/2024

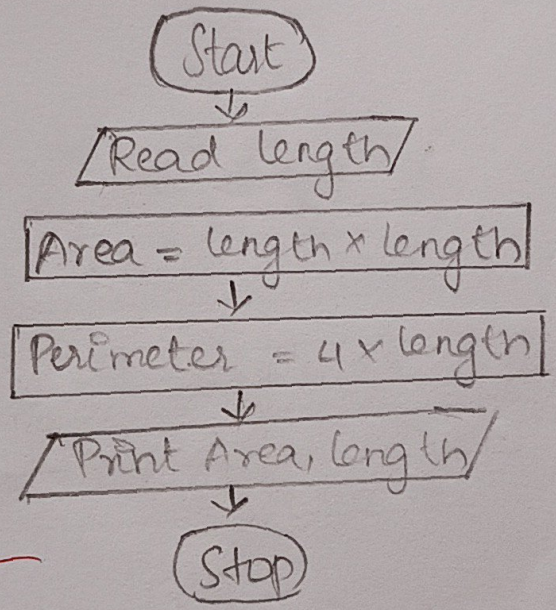
Calculate Area and Perimeter

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

Algorithm:

Step 1: Start
Step 2: Read length
Step 3: Calculate area = length x length
Step 4: Calculate perimeter = 4 x length
Step 5: Print area, perimeter
Step 6: Stop

Flowchart:



Paper

Ex. No.: 11 **Date:** 18/10/2024

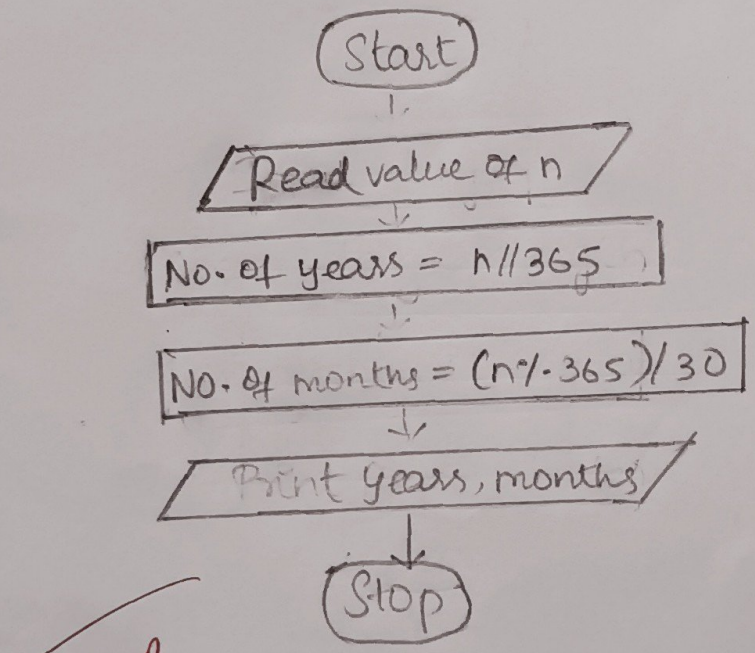
Days to Year Conversion

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

Algorithm:

Step 1: Start
Step 2: Read value of n (i.e, no. of days)
Step 3: Get n//365 = a
Step 4: Get (n%.365)/30 = b
Step 5: Print 'a' as no. of years, 'b' as no. of months
Step 6: Stop

Flowchart:



RPR

Ex. No.: 11 **Date:** 18/10/2024

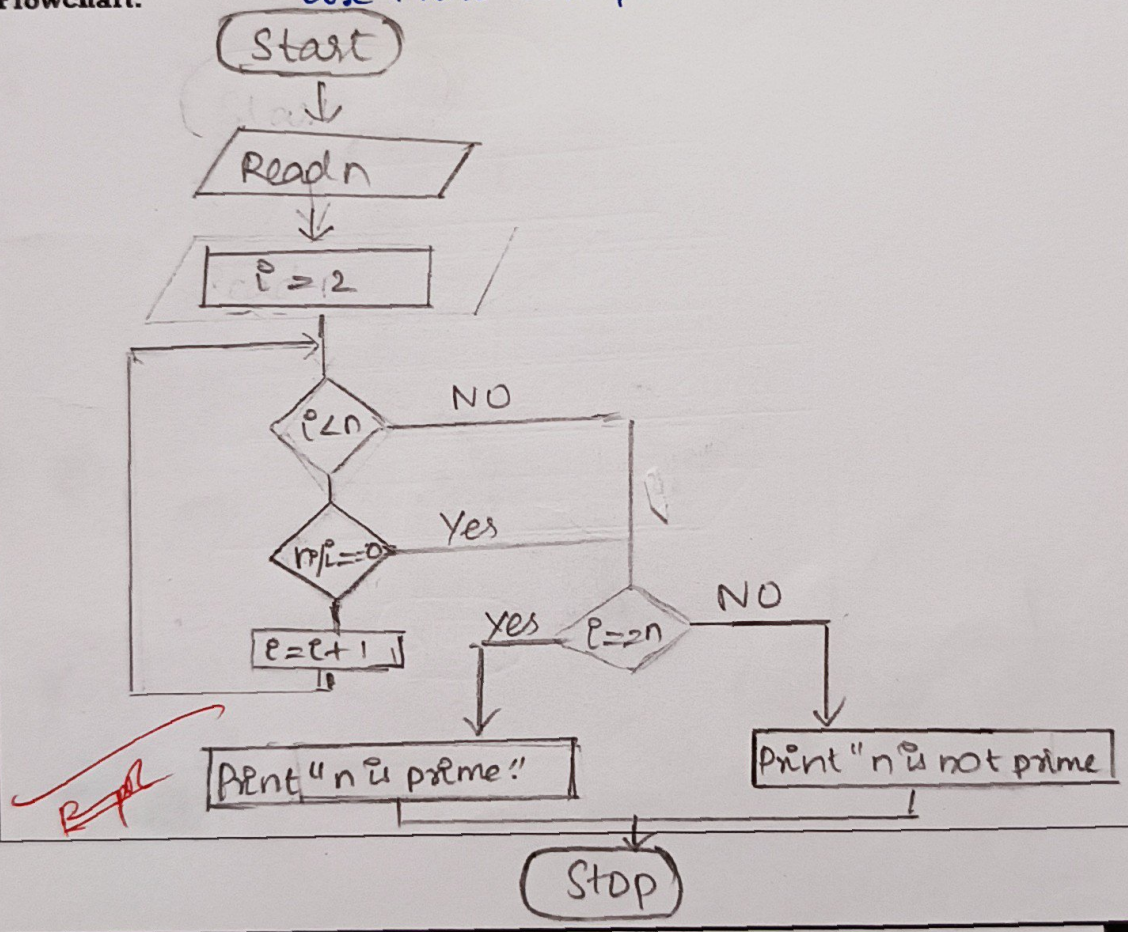
Prime Number

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 f=1
Step4: If n==1 then
Print "n is not prime number"
go to step 8
Step5: For i=2
Step6: If n%.i==0 then
Set f=1 and break
else go to step 8
Step7: If f==1 then
Print "n is not prime"
else Print "n is prime.

Flowchart:



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

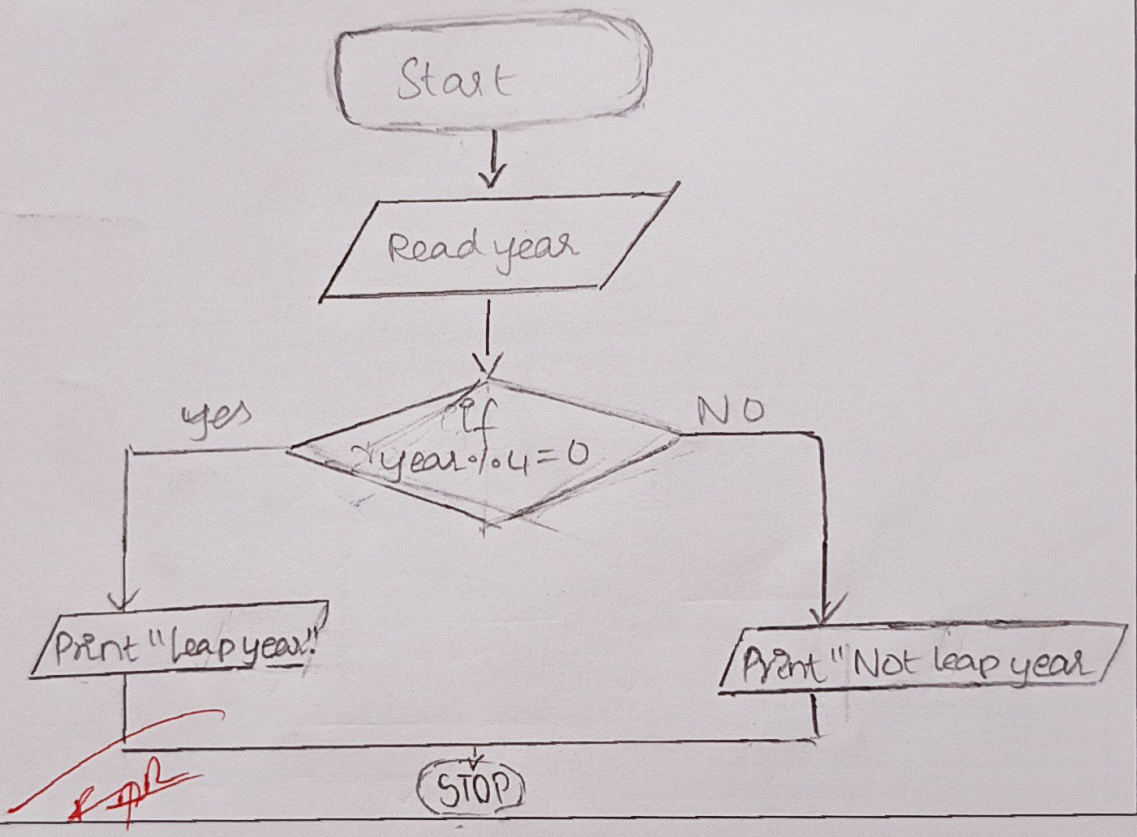
Leap Year

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

Algorithm:

Step 1: Start
Step 2: Input year (n)
Step 3: Check if n%.4 =0
Step 4: rem = year%.4
Step 5: if (rem=20) then
print "leap year"
else print "Not leap year"
Step 6: STOP

Flowchart:



Ex. No.: 5 V

Date: 18/10/2024

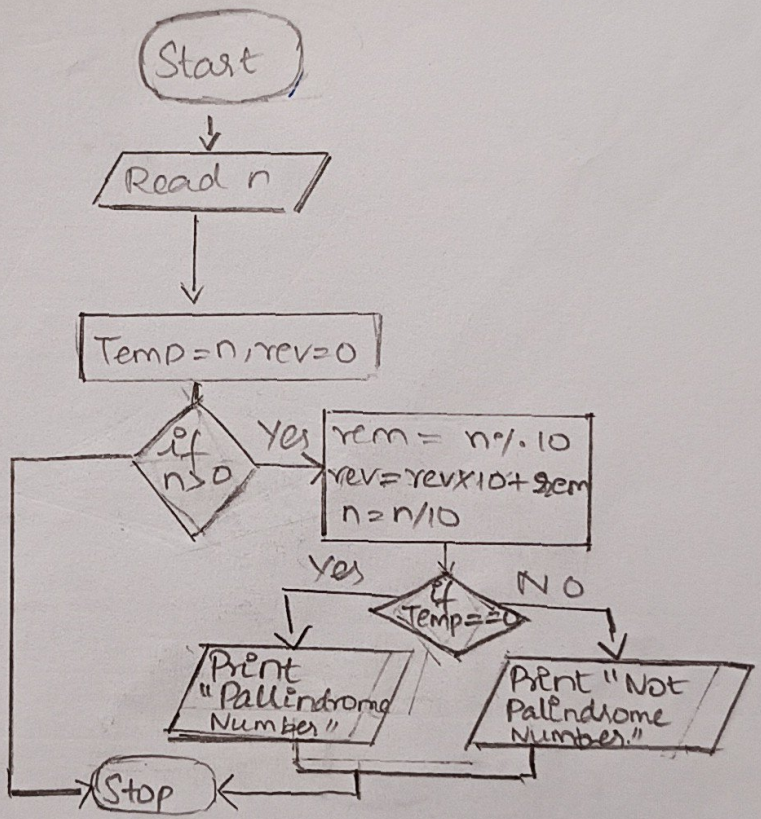
Palindrome Number

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
rev = rev * 10 + rem
n = n / 10
Step 5: If (n > 0), go to Step 4 to Step 6
Step 6: If Temp == rev then
Print "Palindrome number"
else Print "Not Palindrome number"
Step 7: Stop

Flowchart:



Expt

Ex. No.: 1b1 **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:

Step1: Start
Step2: Read n
Step 3: Declare sum = 0
Step4: Remainder = n % 10
Sum = sum + remainder
n = n/10
Step 5: If (n > 0), then go to step 4, else go to step 6
Step 6: Print sum
Step 7: Stop

Flowchart: