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

Calculate Area and Perimeter

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

Algorithm:

Step1 : Start

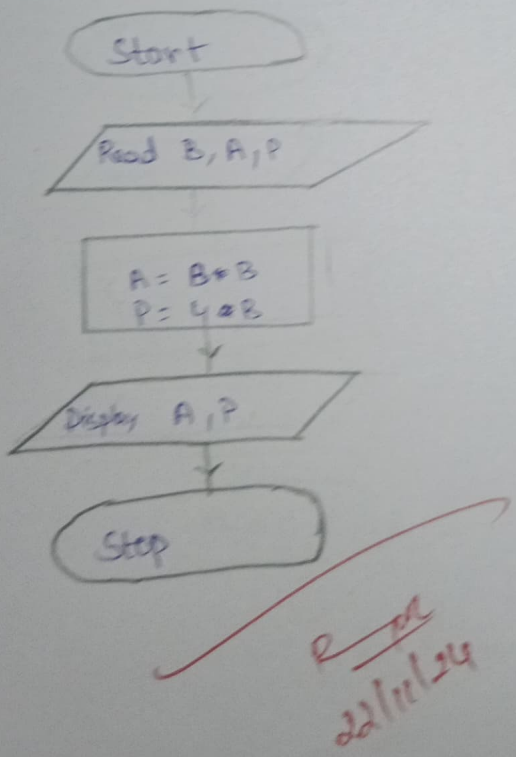
Step2 : Read the variable B as length of a side of a square A, P as Area, Perimeter

Step3 : Multiply B*B as A for Area and 4*B as P for Perimeter

Step4 : Display A as Area and P as Perimeter

Step5 : Stop

Flowchart:



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Ex. No.: 2

Date: 24/10/24

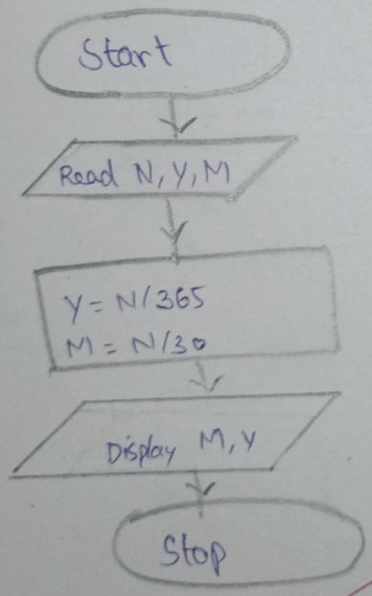
Days to Year Conversion

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

Algorithm:

Step 1 : Start
Step 2 : Read N, Y, M . N as No. of days , Y as Year , M as Month
Step 3 : Calculate Y = N/365 , M = N/30
Step 4 : Display M, Y
Step 5 : Stop

Flowchart:



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

Prime Number

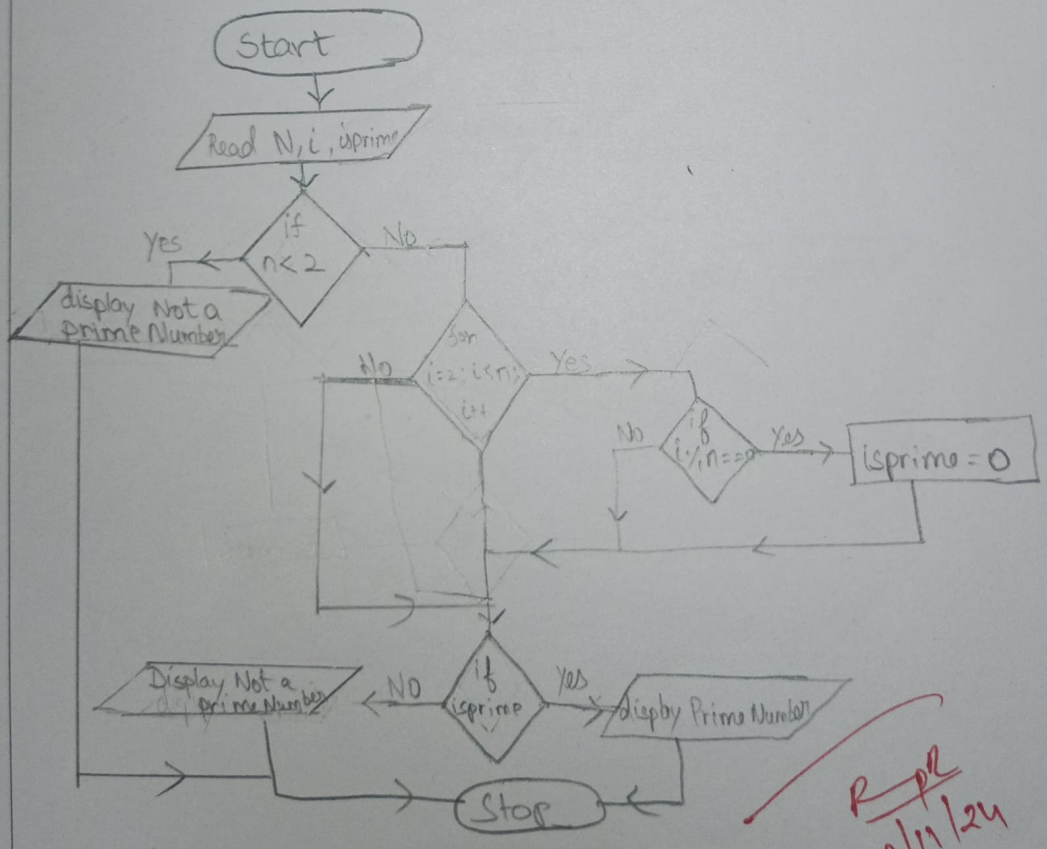
Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

Step 1 : Start
Step 2 : Read N as number , i as 2 , isprime
Step 3 : Check the number N is greater than 1 if not . N is not a prime number
Step 4 : Using For loop checking N is divisible by 2 to N
Steps : Using If loop condition as N % i == 0 then isprime = 1
Step 6 : Display prime number if isprime == 1
else display not a prime number

Step 7 : Stop

Flowchart:



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Ex. No.: 4 **Date:** 24/10/24

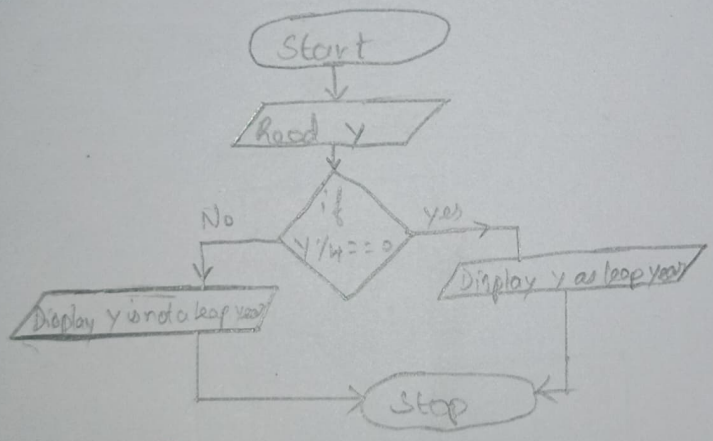
Leap Year

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 Y as Year
Step 3: Calculate using If loop condition Y%4==0 then display leap year. Else display not a leap year
Step 4: Stop

Flowchart:



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Ex. No.: 5 **Date:** 24/10/24

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 Num as the number, RN as reverse number, A

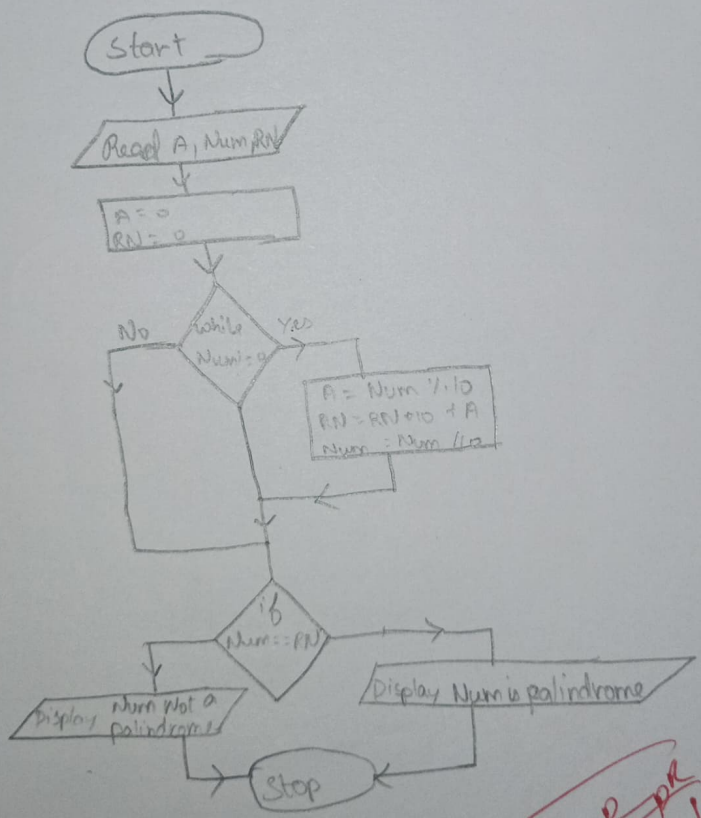
Step 3: Check Using while loop Condition Num != 0

Step 4: Calculating the num in reverse in while with statement A = Num % 10 to get the last digit. RN = RN * 10 + A.
Remove Num last digit by Num = Num / 10

Step 5: using If loop and Condition as Num == RN. display the number is not a palindrome

Step 6: Stop

Flowchart:



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Ex. No.: 6 **Date:** 24/10/24

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 a as user input, b as 0

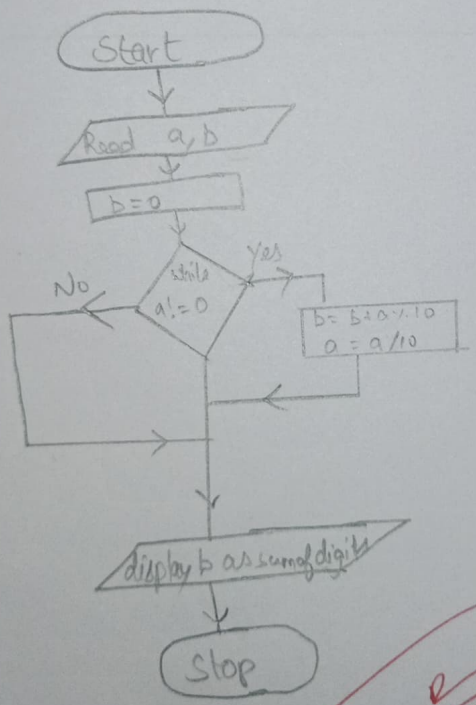
Step 3: Check using while loop and condition a!=0

Step 4: Statements in while loop are b= b+ a %.10 and decreasing a digit a= a/10

Step 5: Display b as the sum of the digit

Step 6: Stop

Flowchart:



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