Ex. No.: 1 **Date:** 18.10.24

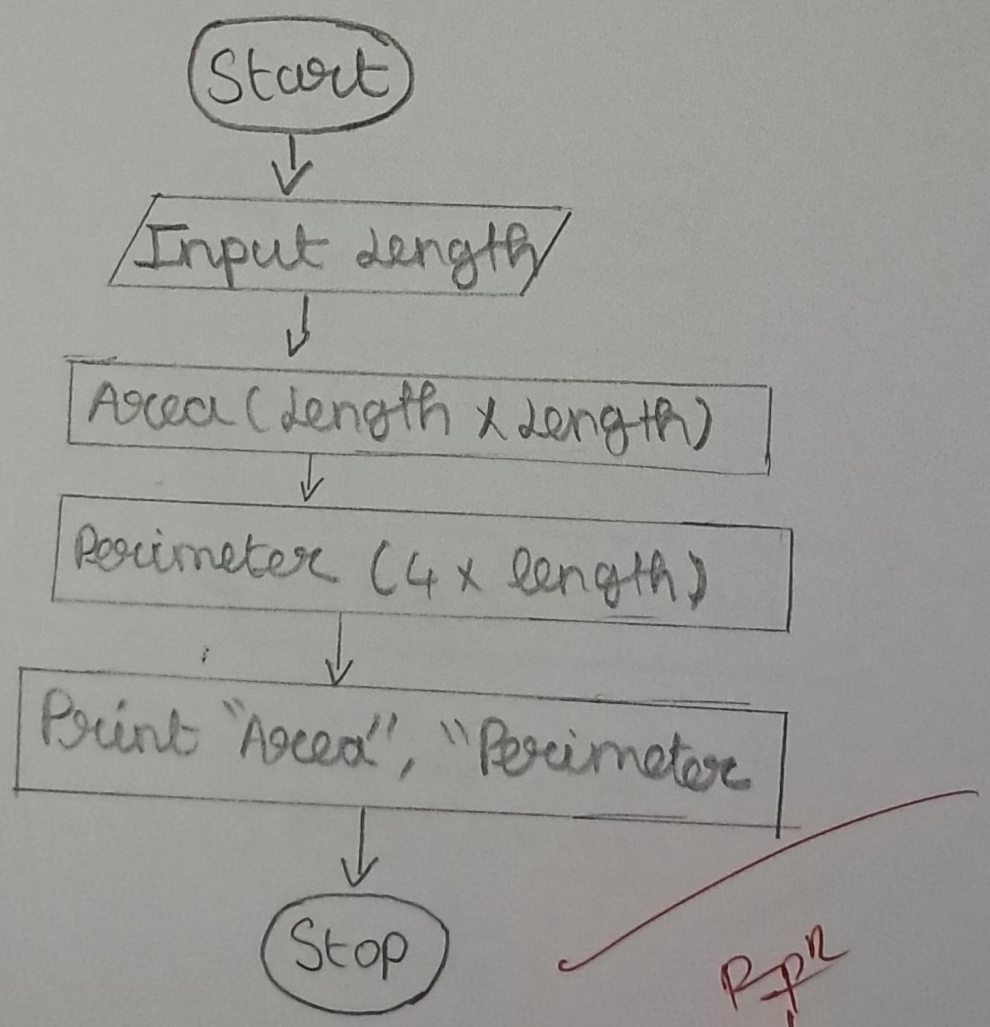
Calculate Area and Perimeter

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

Algorithm:

Step1: Start the program
Step2: Read the value of a (a is one side)
Step3: Perimeter = 4 x a
Step4: Area = a x a
Step5: ~~Perimeter~~ Print "Area, Perimeter

Flowchart:



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Ex. No.: 2 **Date:** 18.10.24

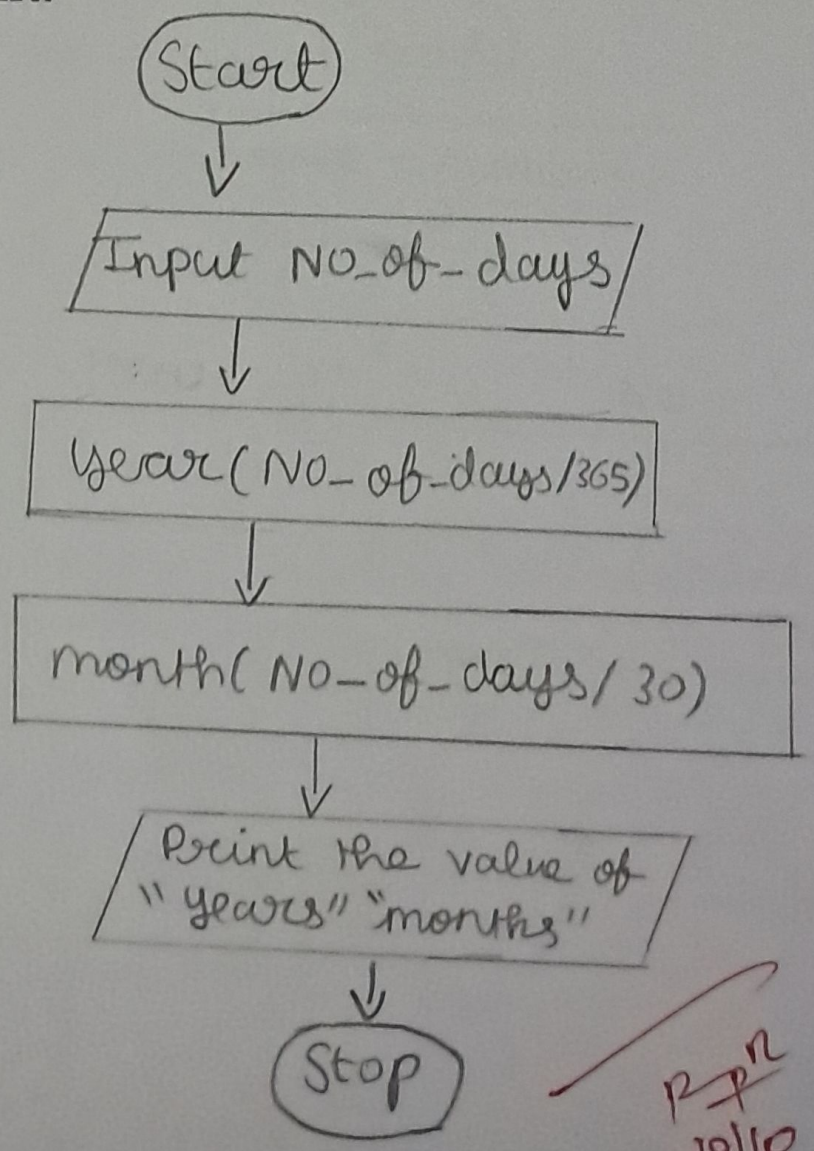
Days to Year Conversion

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

Algorithm:

Step1: Start the program
Step2: Read the No_of_days entered
Step3: year = No_of_days / 365
Step4: months = No_of_days / 30
Step5: Print "year", "months"

Flowchart:



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Ex. No.: 3 **Date:** 18.10.24

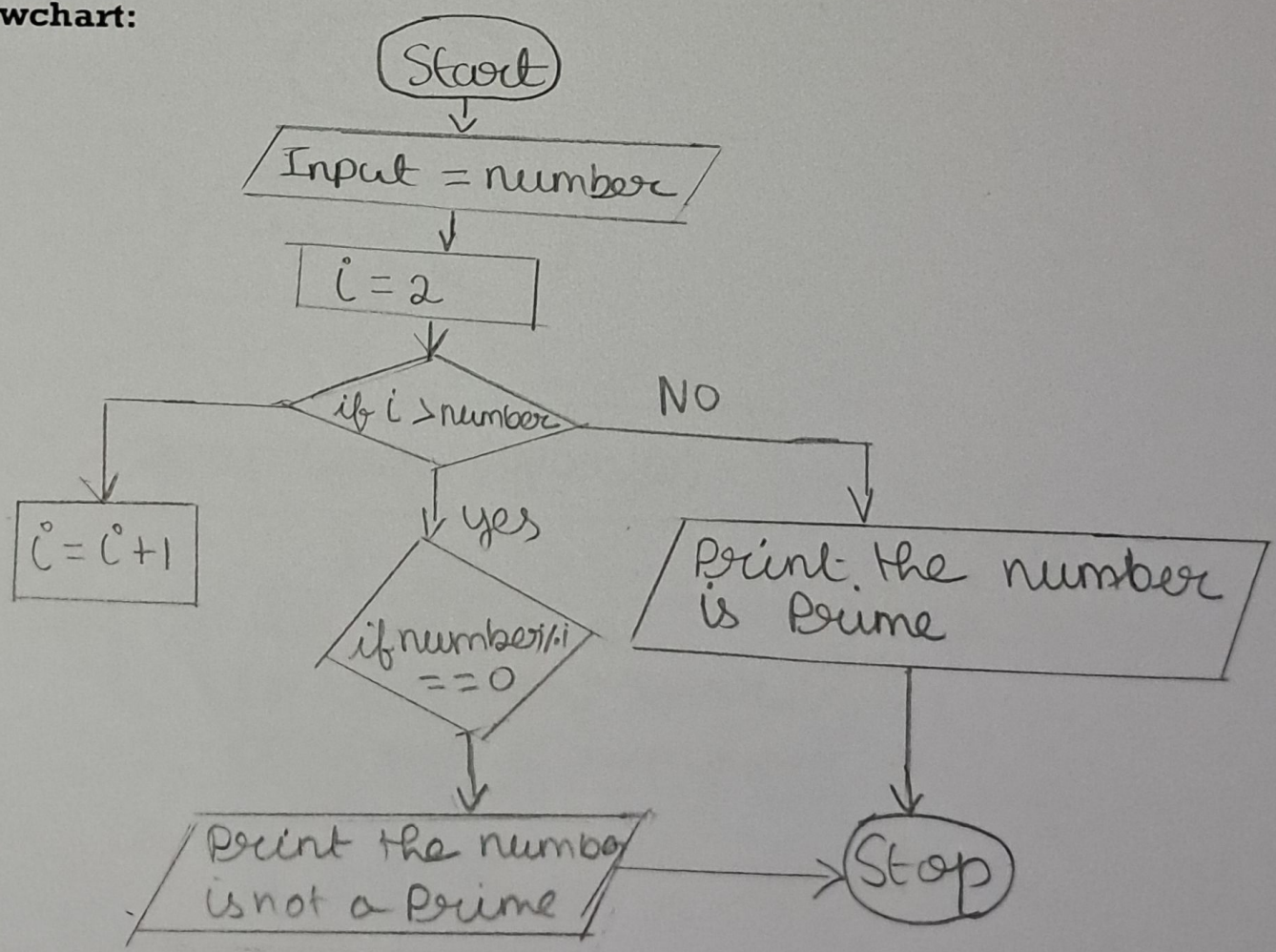
Prime Number

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

Algorithm:

Step1: Start the program
Step2: Read the value of num
Step3: Divide the value of by numbers 2 to Sum-1 by Aerating for loop
Step4: If num is divisible by loop, then increment r. If r=0, Print number is a Prime number
Step5: Else, Print number is not a Prime number

Flowchart:



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Ex. No.: 4 **Date:** 18.10.24

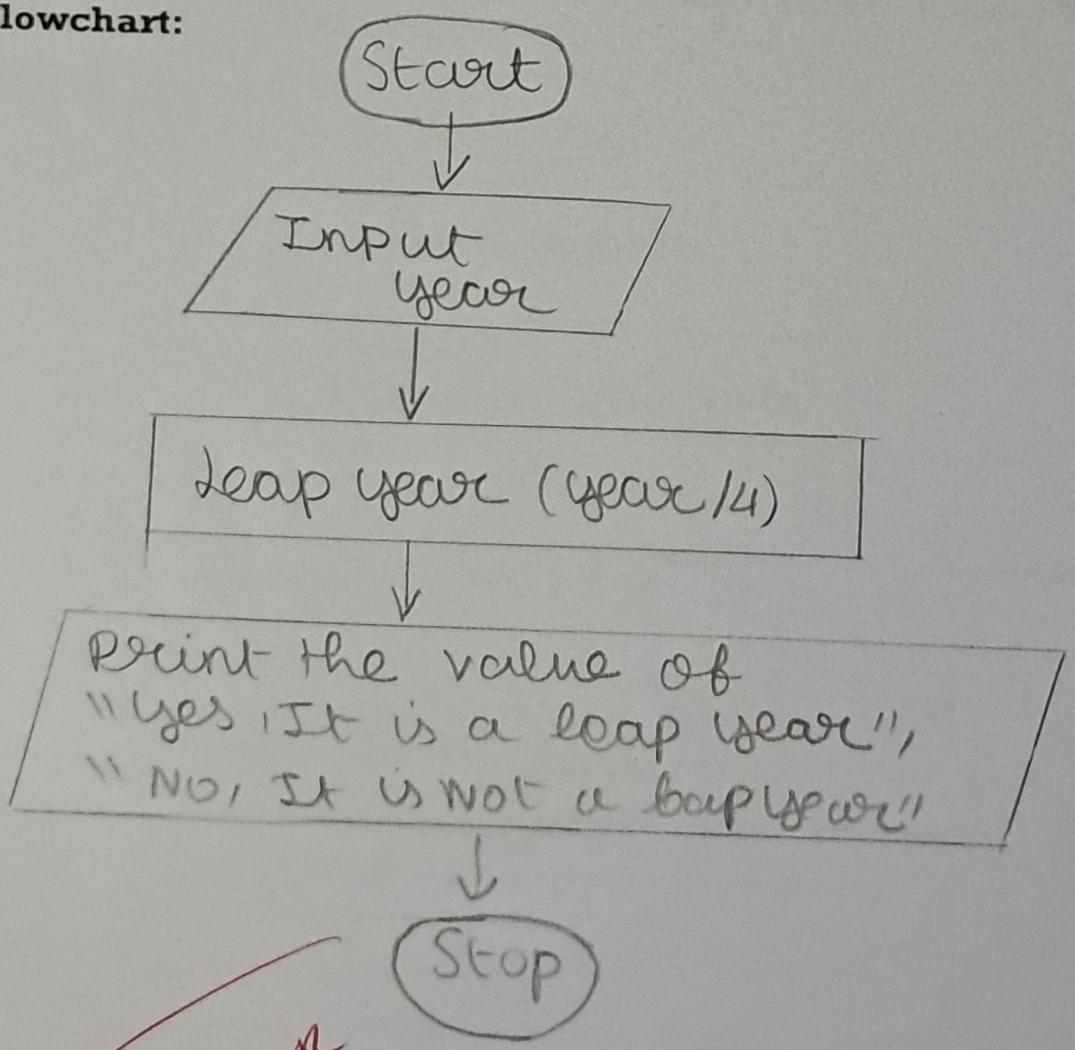
Leap Year

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

Algorithm:

Step 01: Start the Program
Step 2: Enter the year to check wethere the yeare is leap year or not
Step 3: leap year = year/4
Step 4: Print year is a Prime if the year is not divisible by 4, Print it is not a leap year

Flowchart:



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Ex. No.: 5

Date: 18.10.24

Palindrome Number

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

Algorithm:

Step1: Start the program

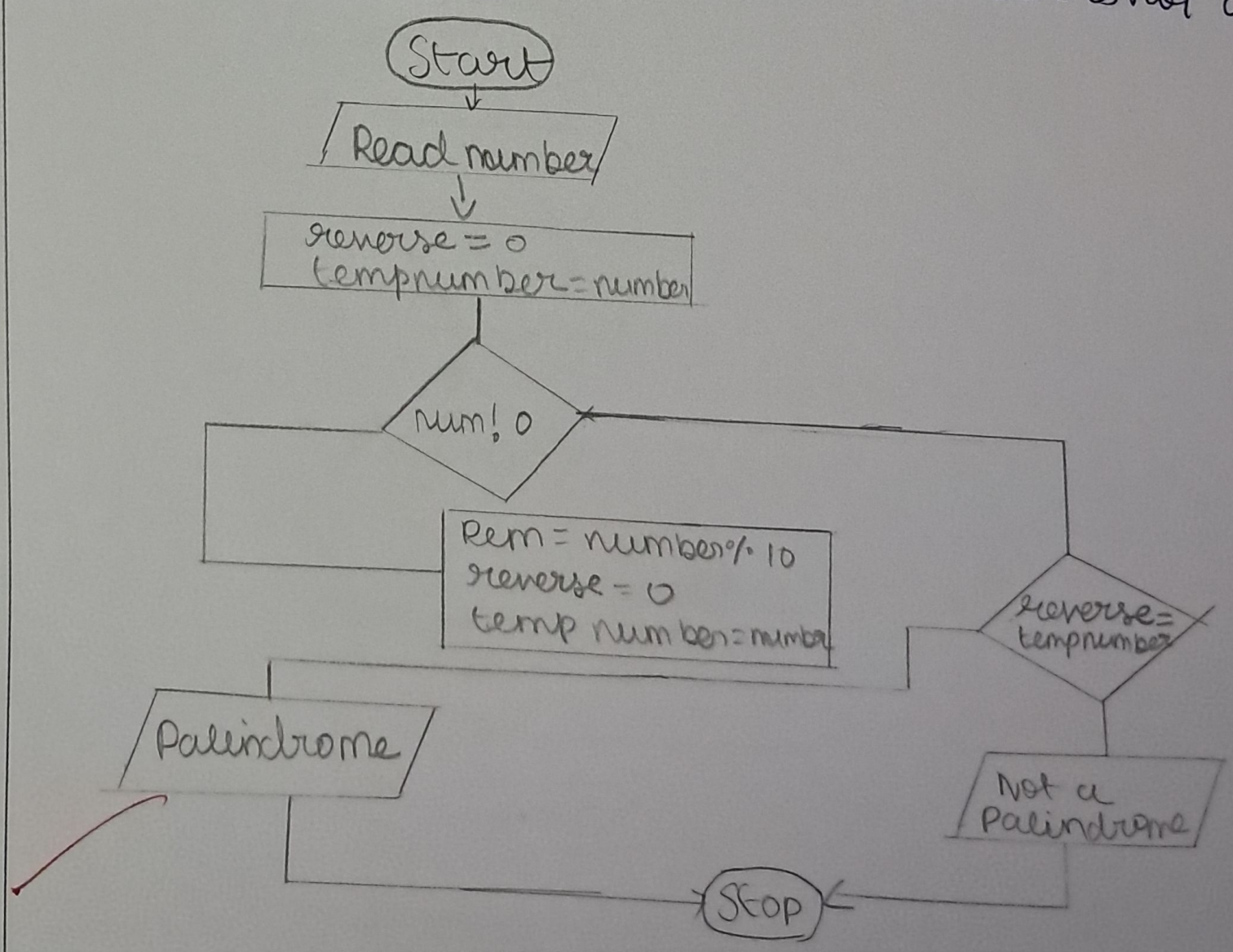
Step2: Declare and Initialise the variable reverse and assign input to a temp variable temp tempnumber = number

Step3: Start the while loop until number != 0 becomes false

Step4: Check if reverse == temp number

Step5: If its true, then the number is a Palindrome. If not the number is not a Palindrome.

Flowchart:



Ex. No.: 6 **Date:** 18.10.24

Sum of Digits

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

Algorithm:

Step 1: Start the program
Step 2: Enter the number
Step 3: Enter the modules/ remainder of the number
Step 4: Sum the remainder of the number
Step 5: Divide the number by 10
Step 6: Reapte the step 3 while the number is greater than 0
Step 7: Display the output

Flowchart: