

Ex. No.: 1

Date:

Calculate Area and Perimeter

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

Algorithm:

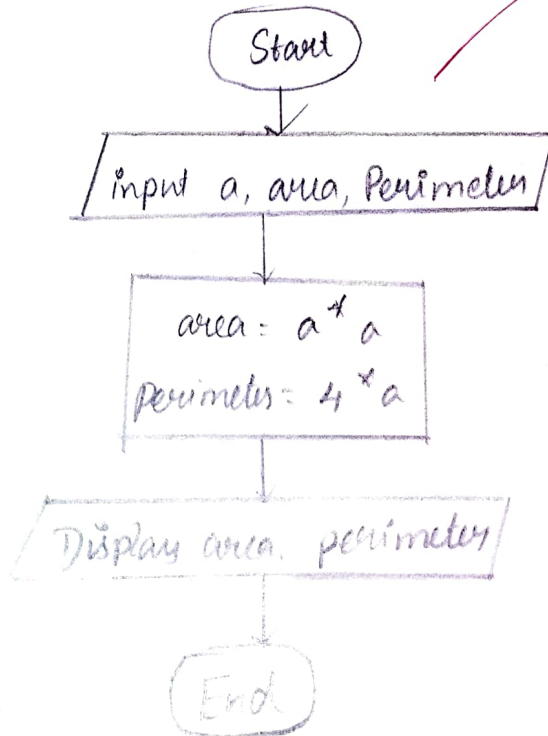
Step 1: Start

Step 2: Input a, area, perimeter

Step 3: Area of the Square = a^2 Step 4: Perimeter of the Square = $4 \times a$

Step 5: Display the Area and Perimeter of the Square

Step 6: end

Flowchart:

Prash
6/12/21

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Date:

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: input days, month, year

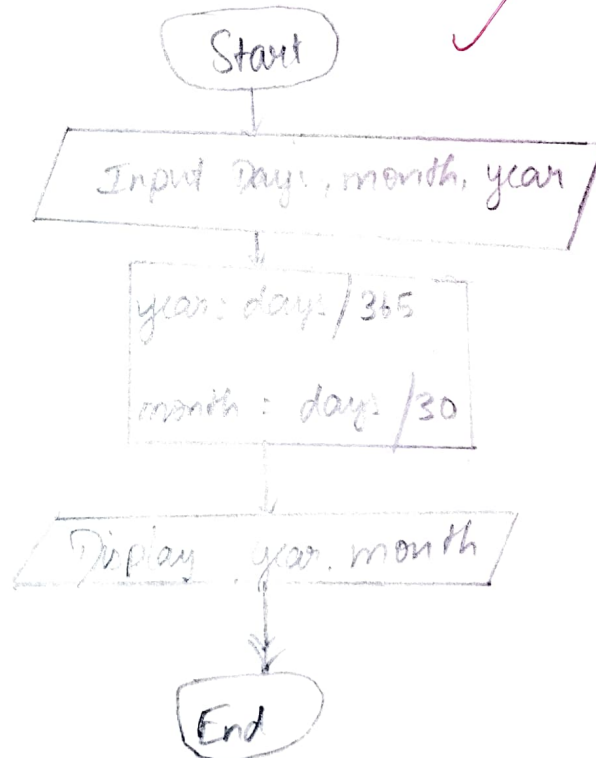
Step 3: Calculate $\text{year} = \text{days} / 365$

Step 4: Calculate $\text{month} = \text{days} / 30$

Step 5: Display month and Year

Step 6: END

Flowchart:



By
6/12/24

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Prime Number

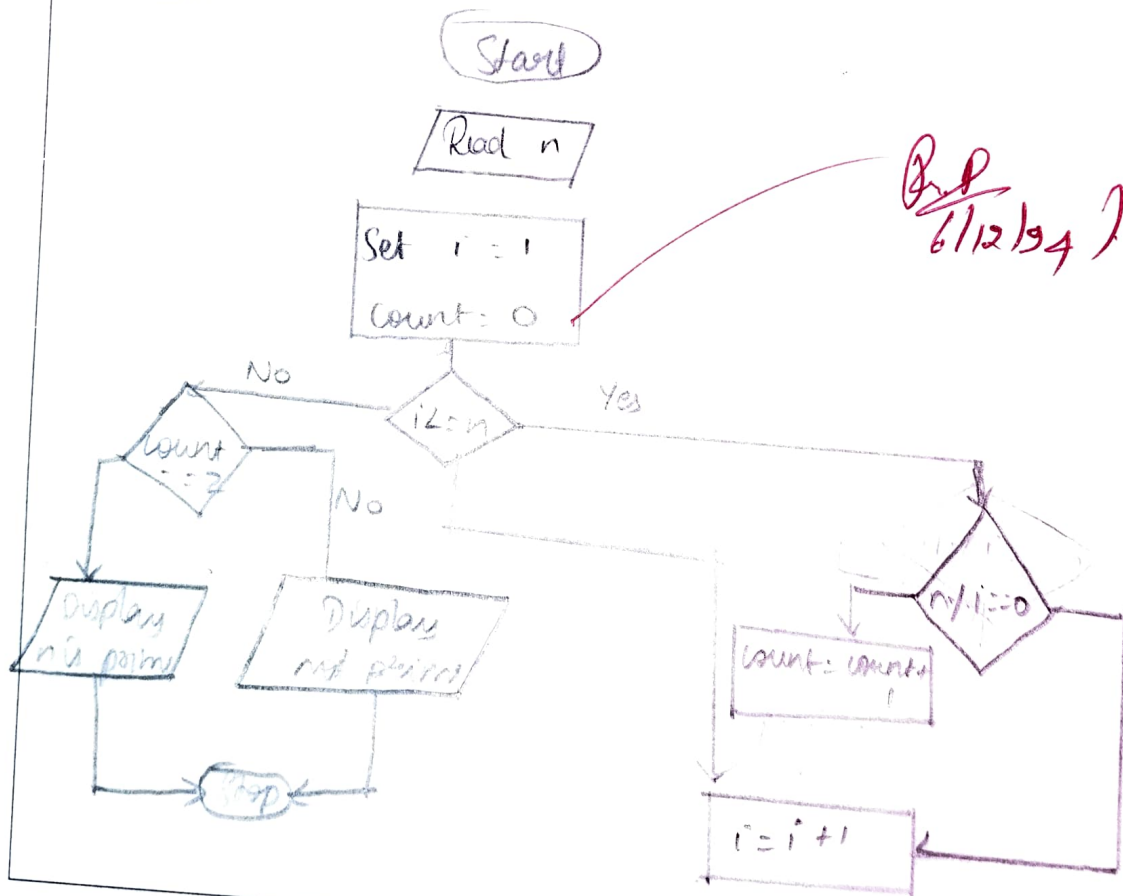
Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

Step 1 :- Start

Step 2: Read Value n Step 3: Set $i=1$, $count=0$ Step 4: If $i \leq n$, if true go to step 5, else go to step 8Step 5: Check the condition $n \% i == 0$ if true go to step 6.Step 6: Set $count = count + 1$ Step 7: $i = i + 1$ go to Step 4Step 8: check $count$, if $count = 2$, display Prime if not display it is not prime

Step 9: Stop

Flowchart:

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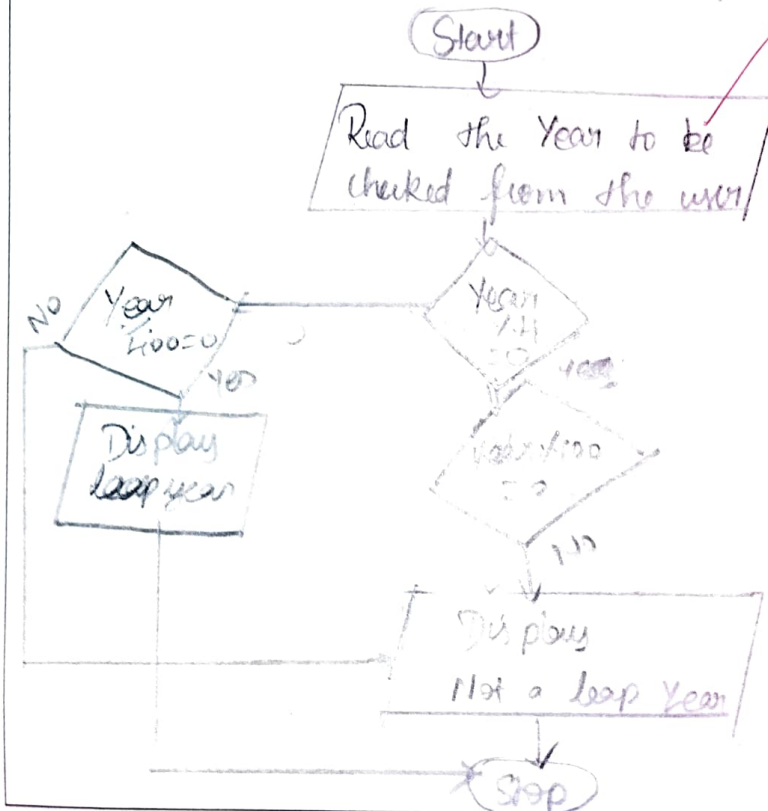
Leap Year

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 the Value of the Year to be checked from the user
 Step 3:- Assign the value to a Variable, Say 'Year'
 Step 4:- If $(\text{Year} / 4 = 0 \text{ and } \text{Year} / 100 \neq 0) \text{ or } \text{Year} / 400 = 0$
 Step 5:- Display Leap Year
 Step 6:- Else display Not leap Year
 Step 7:- Stop/end

Flowchart:



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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 the input number from the user

Step 3: Declare and utilize the variable reverse and assign input to the temp variable temp Num = num

Step 4: Start the while loop until num != 0 becomes false

num = num / 10
reverse = reverse * 10 + num
num = num / 10

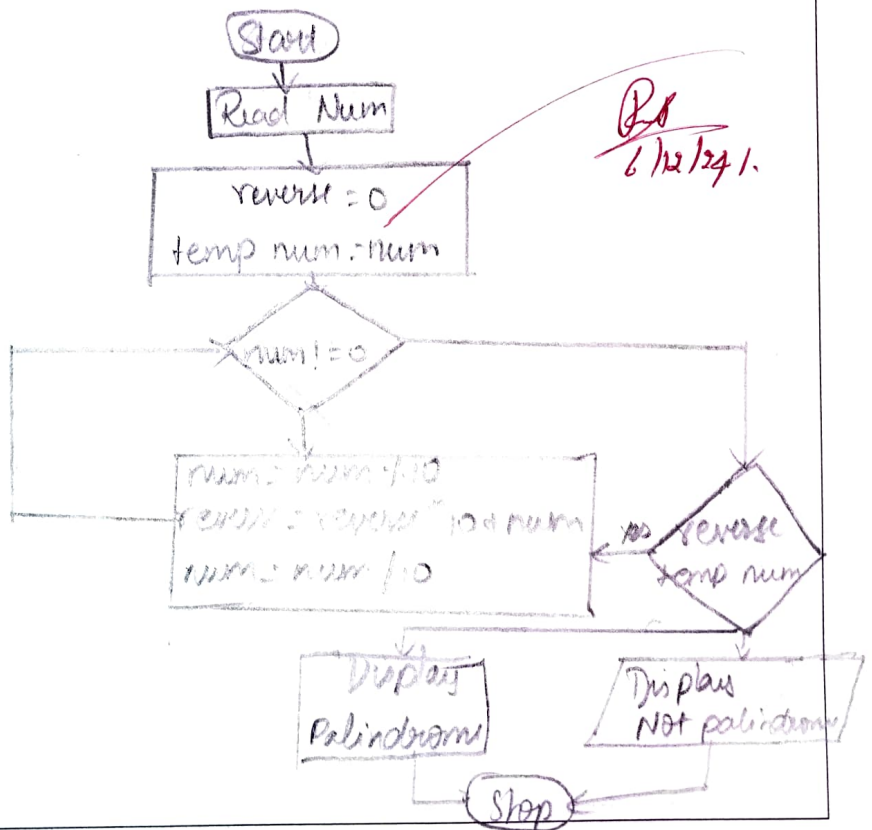
Step 5: check if reverse == temp num

Step 6: If it's true then display the number is a palindrome

Step 7: If not display the number is not a palindrome

Step 8: Stop

Flowchart:



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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: Get the number
 Step 3: construct a variable to hold the total and initialise it
 Step 4: Repeat Step 2 and 3 until the result is not 0
 Step 5: Divide the number by 10 to obtain the right most digit using the remaining "Percent" operators, then add it
 Step 6: Use the '/' operator to divide the integer by 10 to eliminate the last digit on the right
 Step 7: Display the total
 Step 8: Stop

Flowchart:

