

Ex. No.: 01

Date: 18/10/24

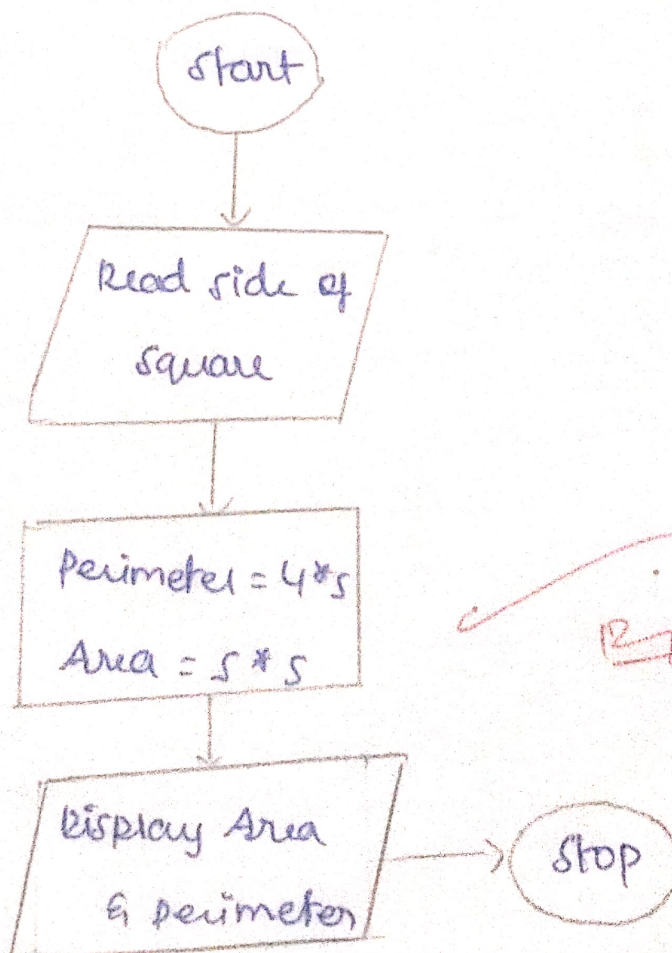
Calculate Area and Perimeter

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

Algorithm:

- Step 1: Input side of square.
- Step 2: Multiply side by 4 to get the perimeter.
- Step 3: Multiply side by side to get the area.
- Step 4: Output area & perimeter of the square.

Flowchart:



Ex. No.: 02

Date: 19/10/24

Days to Year Conversion

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

Algorithm: Start:

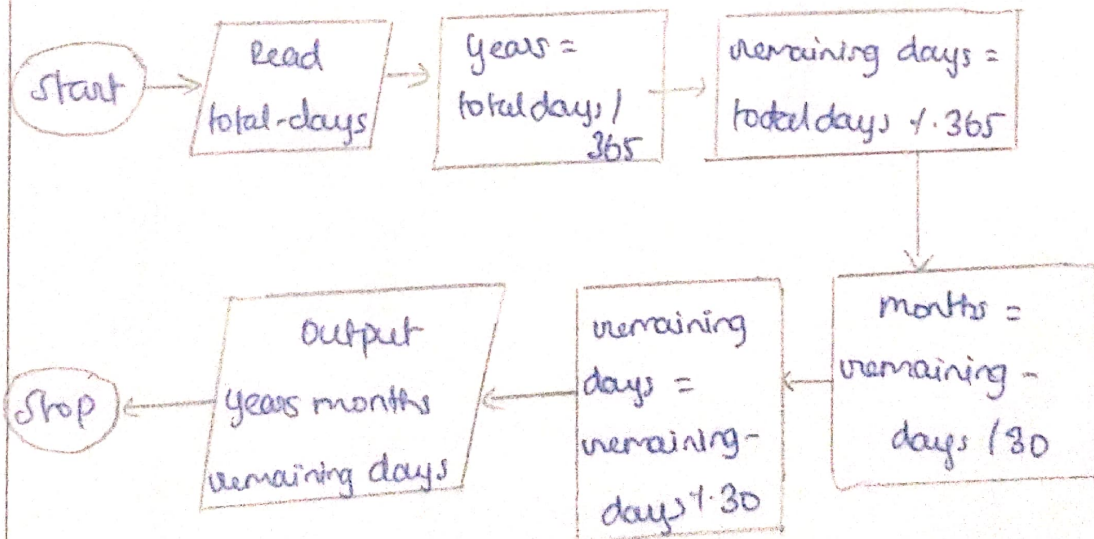
Step 1: Input the total number of days.

Step 2: Define some constants such as days in a year to 365 and days in month to 30.

Step 3: calculate years by dividing input by 365 and remaining days by using modulus function.

Step 4: calculate months by adding input by 30 and remaining days by using modulus function.

Flowchart: Step 5: output years & months. Stop.



PPN

Ex. No.: 03

Date: 18/10/24

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: Get the integer as input from user.

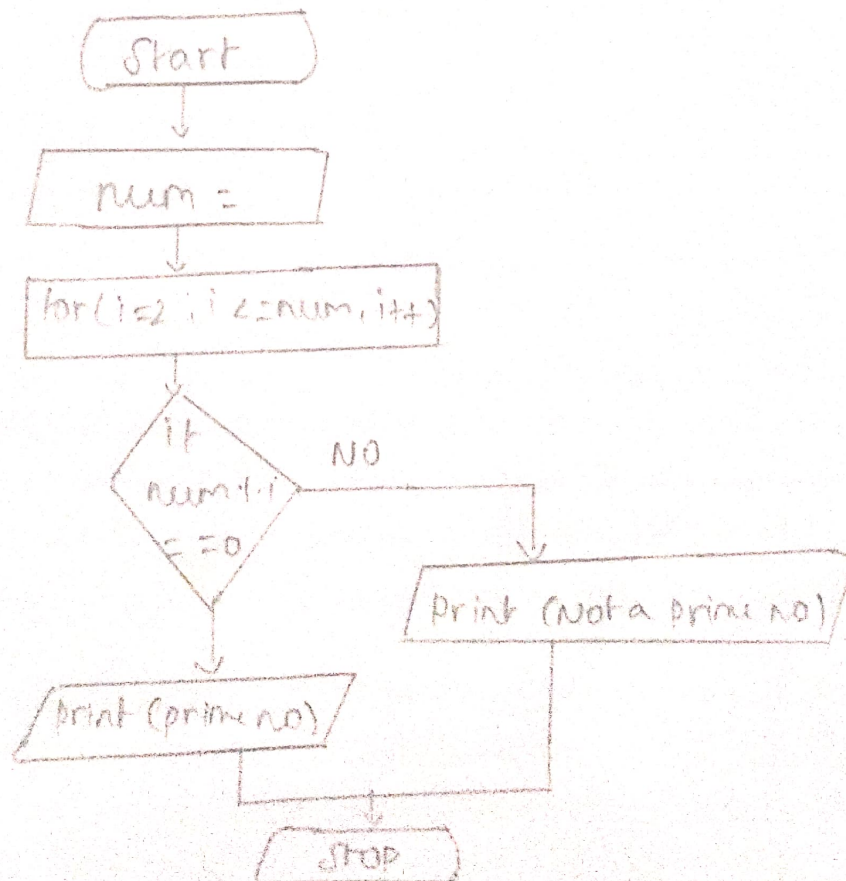
Step 3: Use for loop iteration from 2 to num/2.

Step 4: If integer is divisible by for loop, increment the input as $it++$.

Step 5: If input is equal to 0, print num is prime or else print num is not prime

Step 6: stop

Flowchart:



Ex. No.: 04

Date: 08/10/24

Leap Year

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

Algorithm:

Step 1: Start

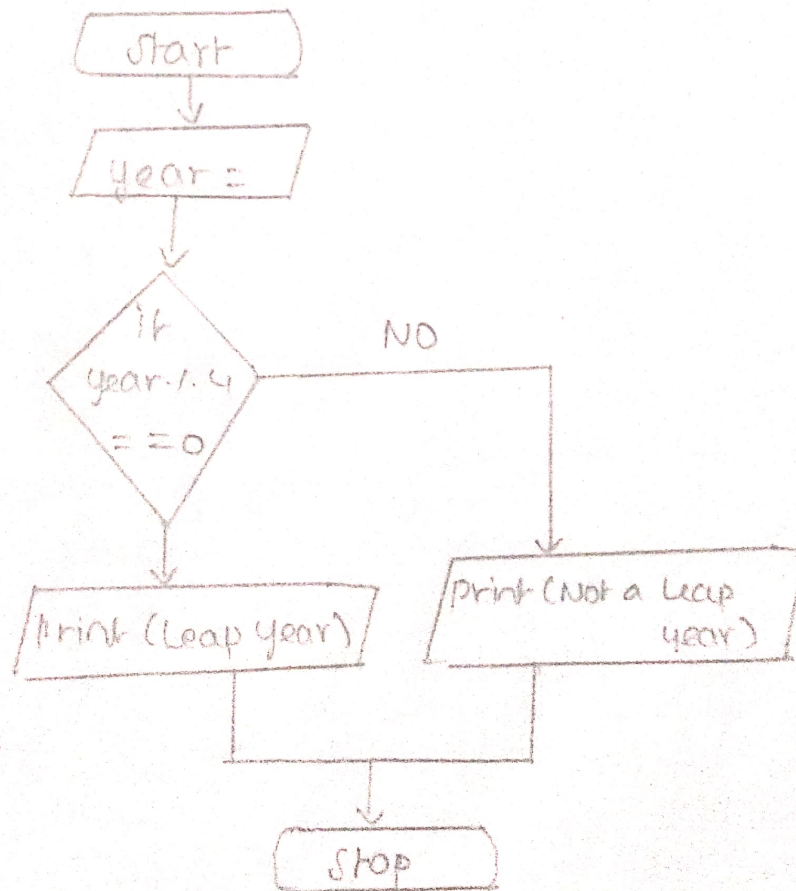
Step 2: Enter the input.

Step 3: To find it is leap year, use condition as $\text{year} \% 4 == 0$

Step 4: If $\text{year} \% 4 == 0$, print leap year, else print not leap year.

Step 5: Stop.

Flowchart:



Ex. No.: 05

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:

Step 1: Start

Step 2: Test the input from the user.

Step 3: Initialize reversed = 0.

Step 4: Remainder = $n \% 10$

Step 5: Reversed = reversed * 10 + remainder

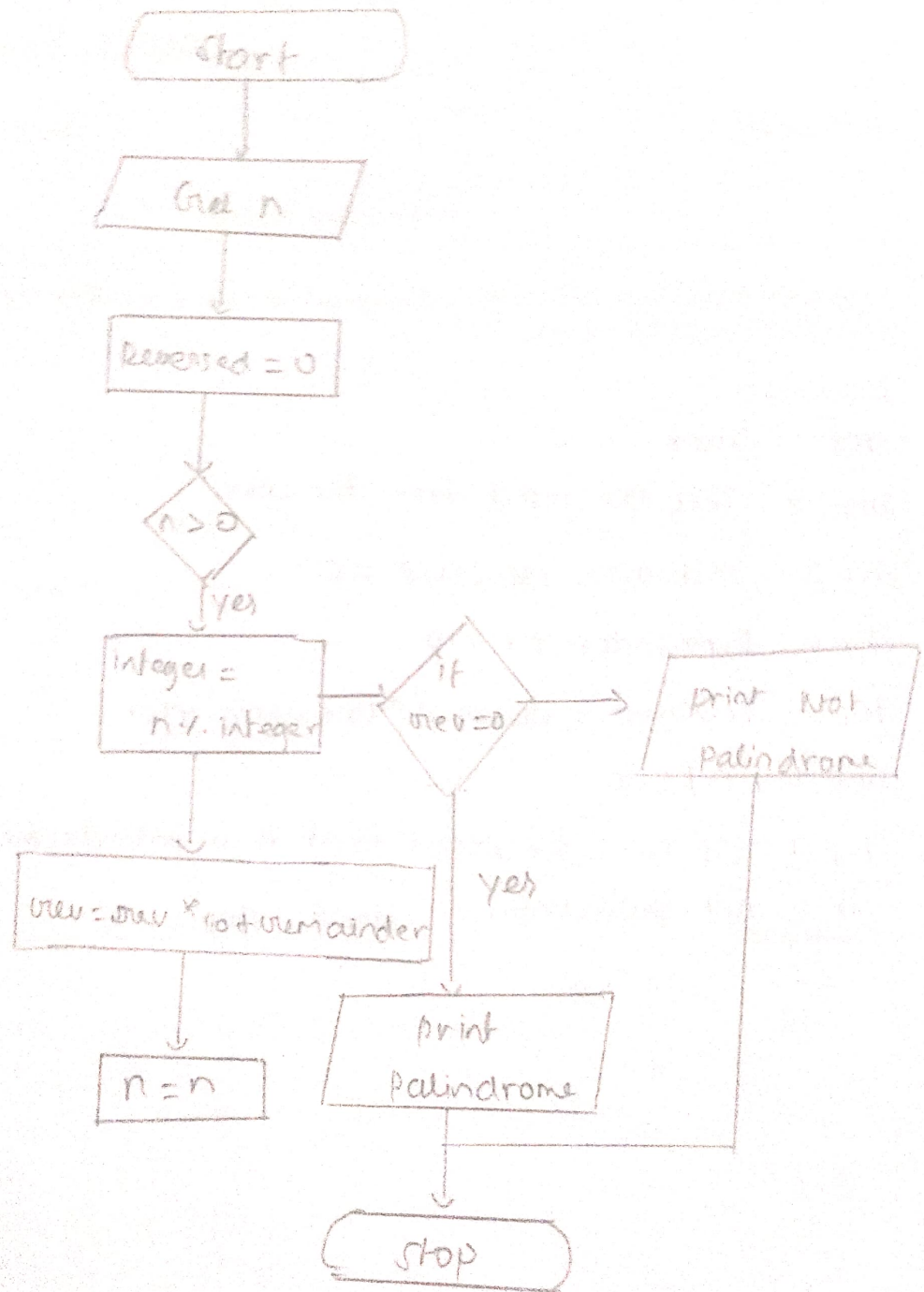
Step 6: $n /= 10$

Step 7: If $n == \text{Reversed}$ print it is palindrome or else print it is not palindrome.

Step 8: stop.

Flowchart:

FLOW CHART:



Ex. No.: 06

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.

Step 2: Declare variable.

Step 3: Get the number input from user.

Step 4: Initialize $sum = 0$.

Step 5: while loop with condition $num > 0$.

Step 6: $sum = sum + num \% 10$

Step 7: $num = num / 10$

Step 8: Print sum step 9: stop.

Flowchart:

