

Ex. No.: 4

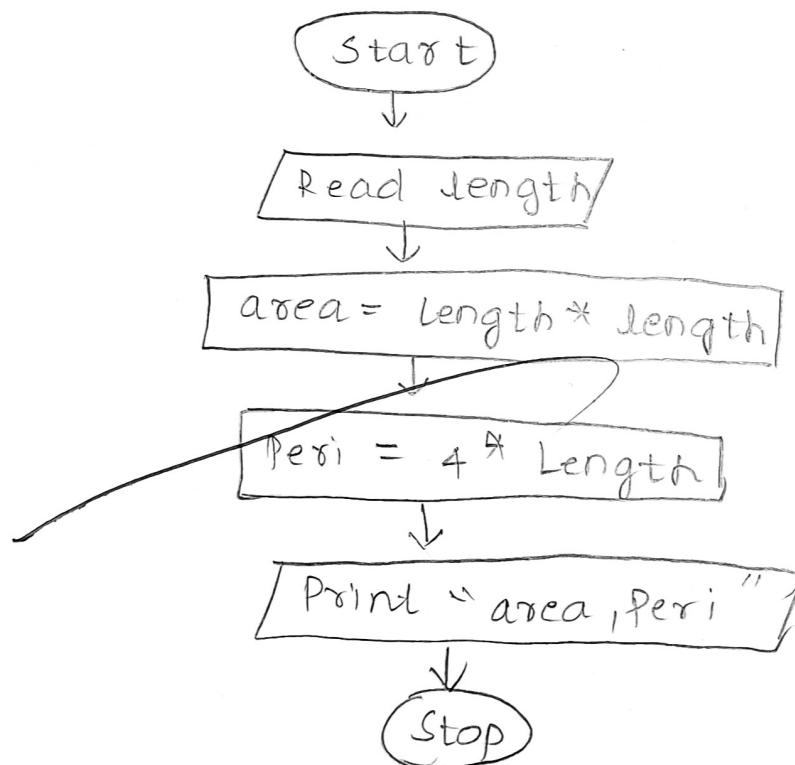
Date: 21/09/24

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
 $\text{area} = \text{length} * \text{length}$
Step 4: Calculate
 $\text{Perimeter} = 4 * \text{Length}$
Step 5: Print "area, peri"
Step 6: End.

Flowchart:

Ex. No.: 2

Date: 21/09/24

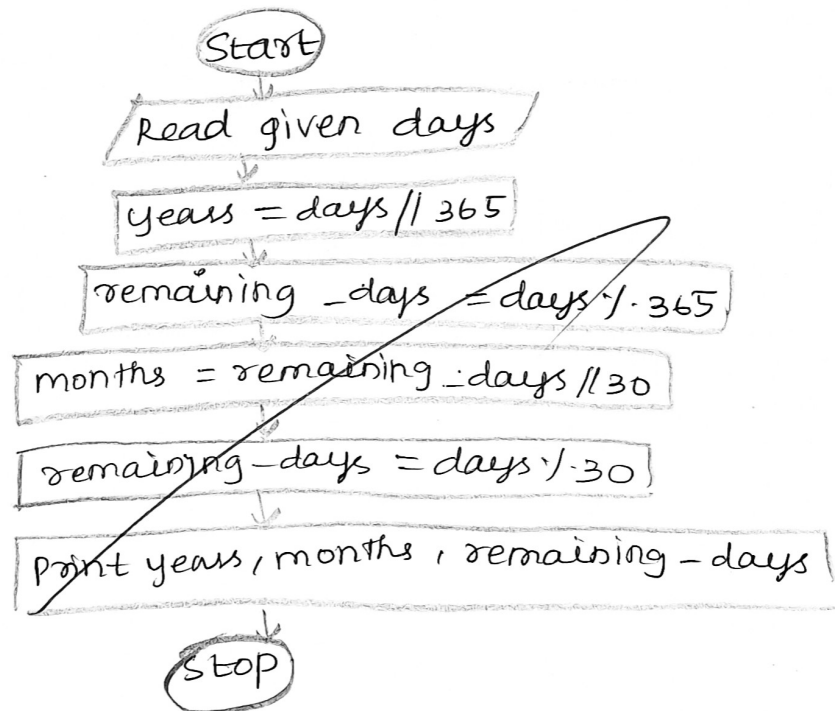
Days to Year Conversion

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

Algorithm:

- Step 1: start
 Step 2: Read the given days.
 Step 3: $\text{years} = \text{days} // 365$
 Step 4: $\text{remaining_days} = \text{days} \% 365$
 Step 5: $\text{months} = \text{remaining_days} // 30$
 Step 6: $\text{remaining_days} = \text{remaining_days} \% 30$
 Step 7: Display years, months and remaining - days.
 Step 8: stop

Flowchart:



Ex. No.: 3.

Date: 21/09/24

Prime Number

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

Algorithm:

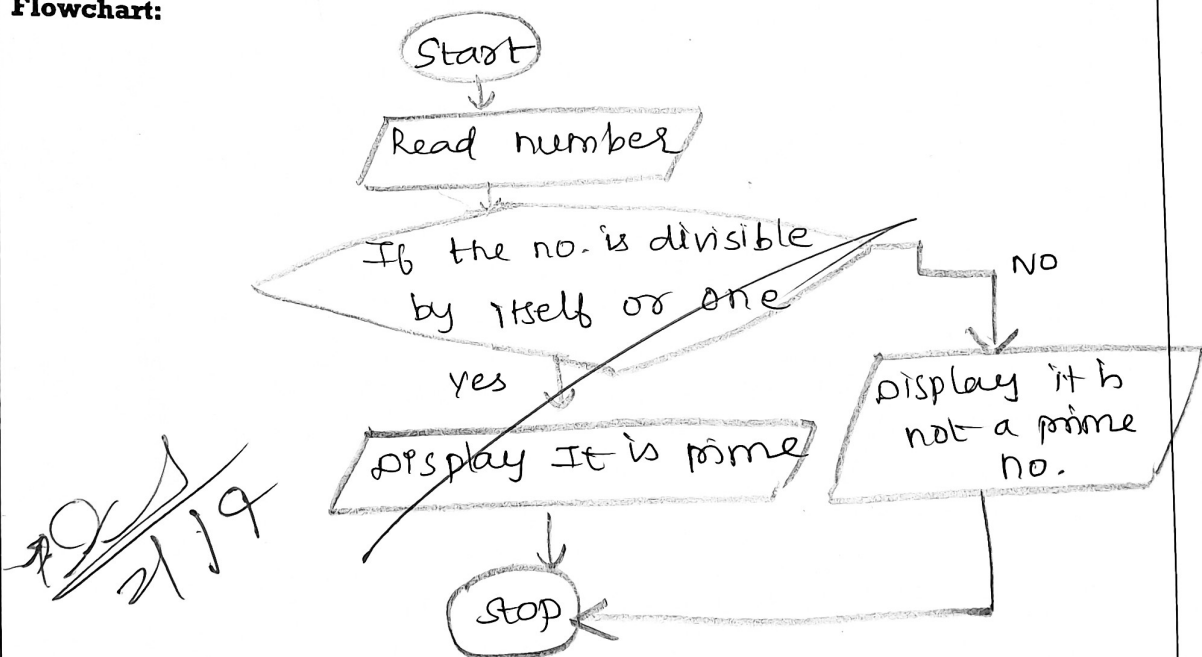
Step 1: Start

Step 2: Read number

Step 3: Using math module, check if the no. is divisible only by 1 and itself, if this is satisfied print it is prime.

Step 4: otherwise, print it is not a prime number.

Step 5: stop.

Flowchart:

Ex. No.: 4

Date: 25/09/24

Leap Year

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

Algorithm:

Step 1: start

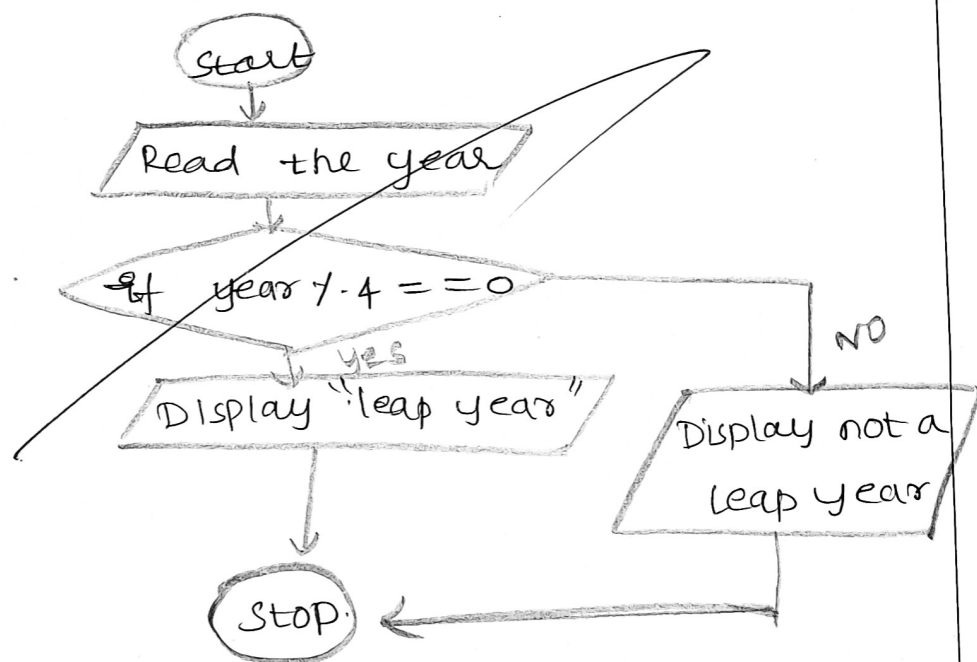
Step 2: Read the value of the year

Step 3: If $\text{year} \% 4 == 0$

Step 4: Display it is leap year.

Step 5: otherwise it is not leap year

Step 6: stop.

Flowchart:

Ex. No.: 5

Date: 25/09/24

Palindrome Number

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

Algorithm:

Step 1: Start

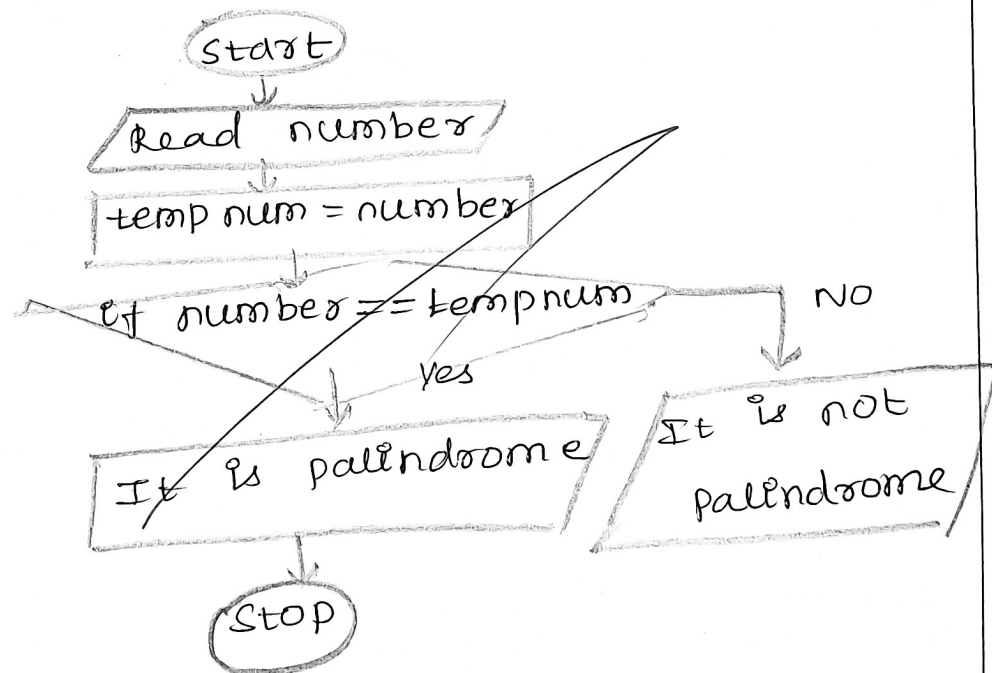
Step 2: Read the number

Step 3: Declare temp num = number

Step 4: Check if number = temp num, if this is true it is a palindrome.

Step 5: If not, it is not a palindrome.

Step 6: Stop.

Flowchart:

Ex. No.: 6

Date: 25/09/24

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: Construct a variable to hold total and initialize the value to 0.
 Step 3: Divide the no. by 10 to obtain the rightmost digit using remaining "percent" operator - then add to the total.
 Step 4: Use \backslash operator to divide the integers by 10 to the last digit.
 Step 5: print the total
 Step 6: stop.

Flowchart:

