

Ex. No.: |

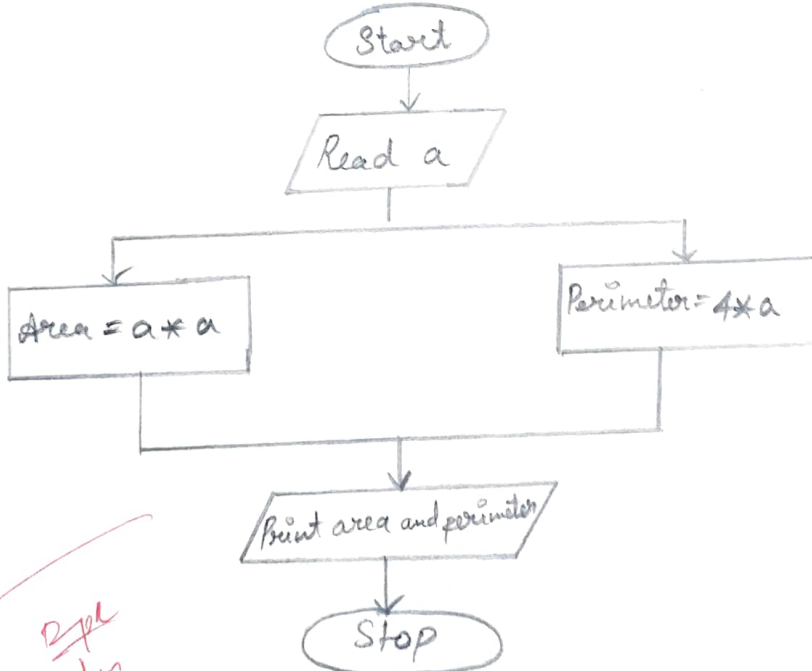
Date: 27-09-2024

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 value for side of square
- Step 3: $\text{Area} = a * a$
- Step 4: $\text{Perimeter} = 4 * a$
- Step 5: Print area and perimeter
- Step 6: End

Flowchart:

Ex. No.: 2

Date: 27-09-2024

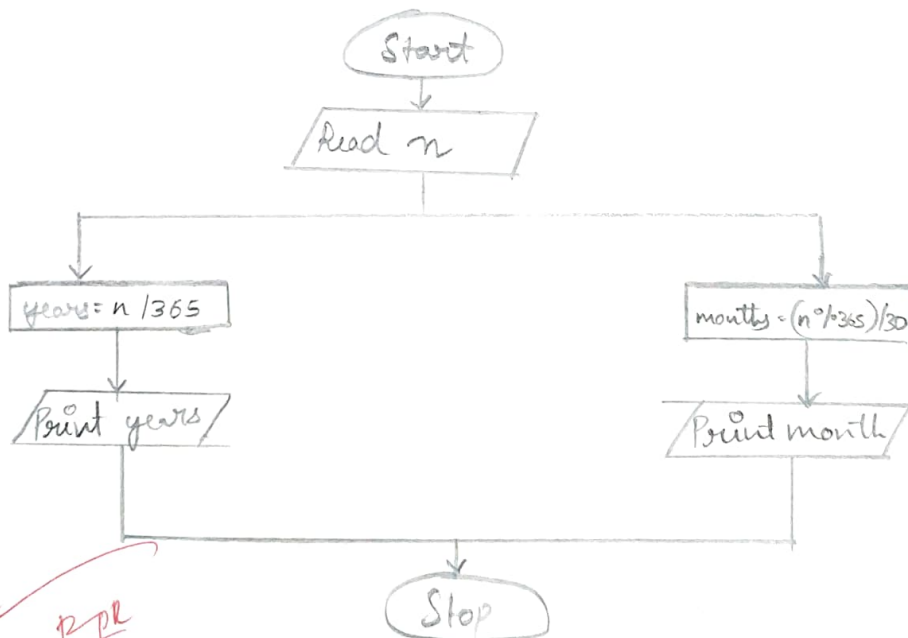
Days to Year Conversion

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

Algorithm:

- Step 1: Start
- Step 2: Read number of days
- Step 3: $\text{years} = n / 365$
- Step 4: $\text{months} = (n \% 365) / 30$
- Step 5: Print year and month
- Step 6: End

Flowchart:



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Ex. No.: 3

Date: 1-10-2024

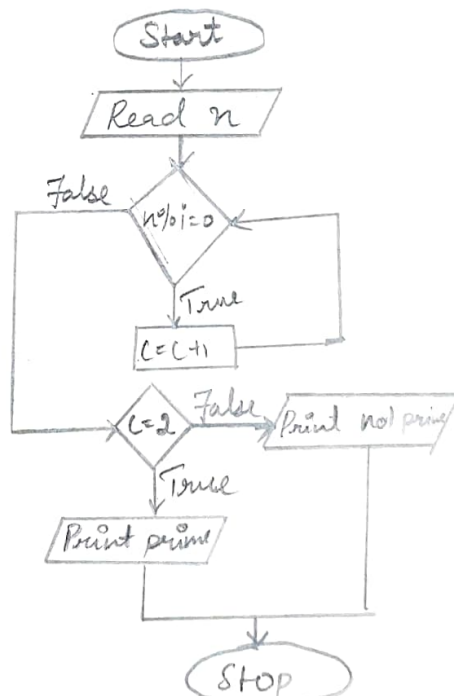
Prime Number

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 of n
 Step 3: Initialize loop variable i
 Step 4: Iterate from 1 and end at n
 Step 5: Check $n \% i = 0$
 Step 6: $C = C + 1$, end loop
 Step 7: Check $C \geq 2$, print prime number
 Step 8: Otherwise, print not prime number
 Step 9: End

Flowchart:



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Ex. No.: 1

Date: 1-10-2024

Leap Year

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

Algorithm:

Step 1: Start

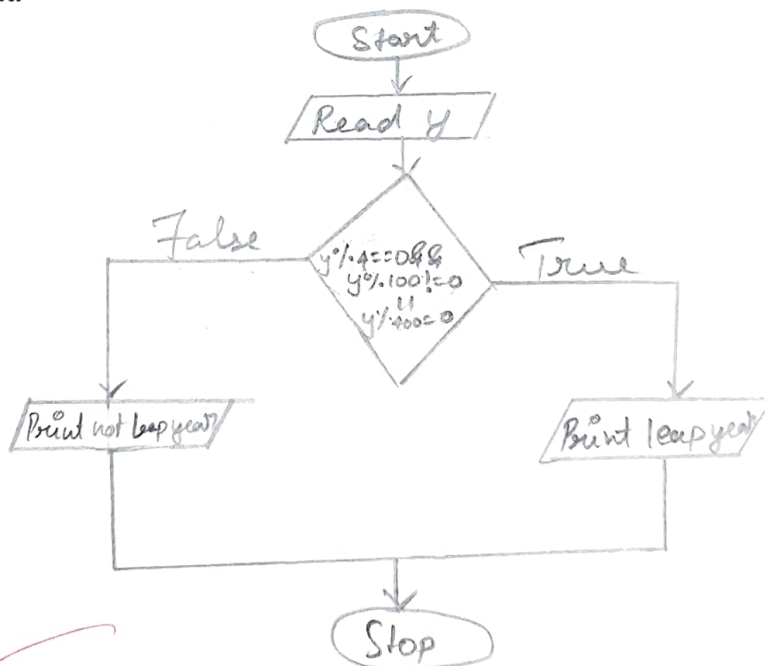
Step 2: Read year

Step 3: Check if $y \% 4 \neq 0$ and $y \% 100 \neq 0$ or $y \% 400 = 0$, print leap year

Step 4: Otherwise, print not a leap year

Step 5: End

Flowchart:



Ex. No.: 5

Date: 1-10-2024

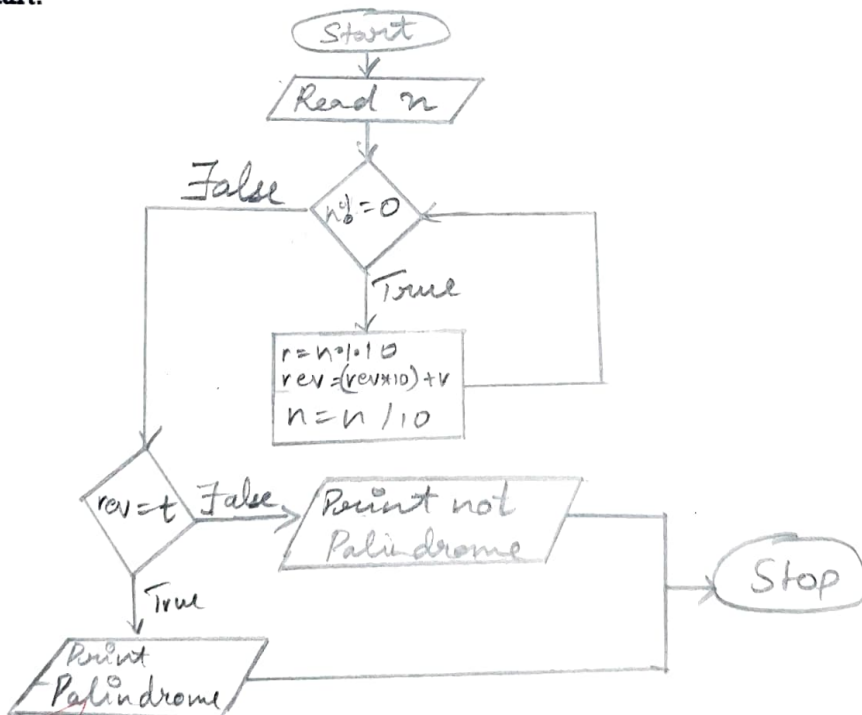
Palindrome Number

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 a number 'n'
 Step 3: Assign 'n' to temporary variable 't'
 Step 4: While loop $n \neq 0$
 Step 5: $r = n \% 10$, $rev = (rev * 10) + r$.
 Step 6: $n = n / 10$, exit loop
 Step 7: Check if $rev = t$, print palindrome
 Step 8: Otherwise, print not palindrome
 Step 9: End

Flowchart:



Ex. No.: 6

Date: 1-10-2024

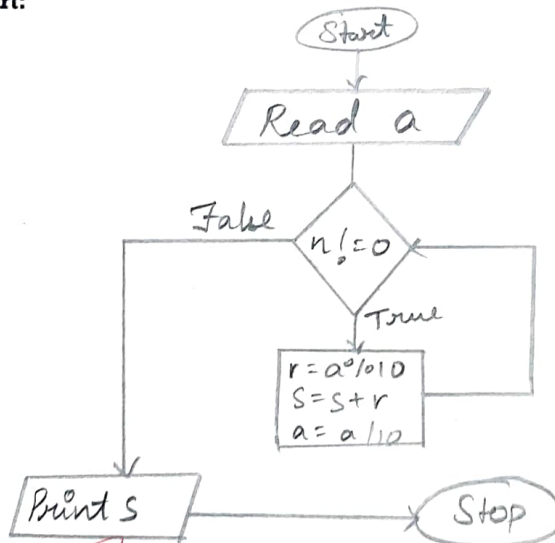
Sum of Digits

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
 Step 3: while loop $n \neq 0$
 Step 4: $r = a \% 10$, $s = s + r$
 Step 5: $a = a / 10$, exit loop
 Step 6: print s
 Step 7: End

Flowchart:



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