

Ex. No.: 1

Date: 18/10/24

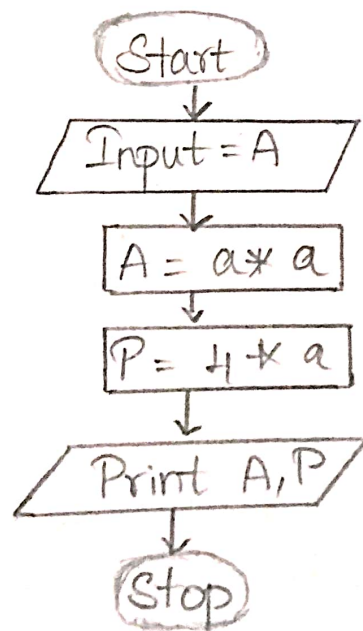
Calculate Area and Perimeter

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

Algorithm:

- Step 1: Start
- Step 2: Read value for a
- Step 3: $area = a * a$
- Step 4: $perimeter = 4 * a$
- Step 5: display area, perimeter.
- Step 6: end

Flowchart:



P.P.R.

Ex. No.: 11

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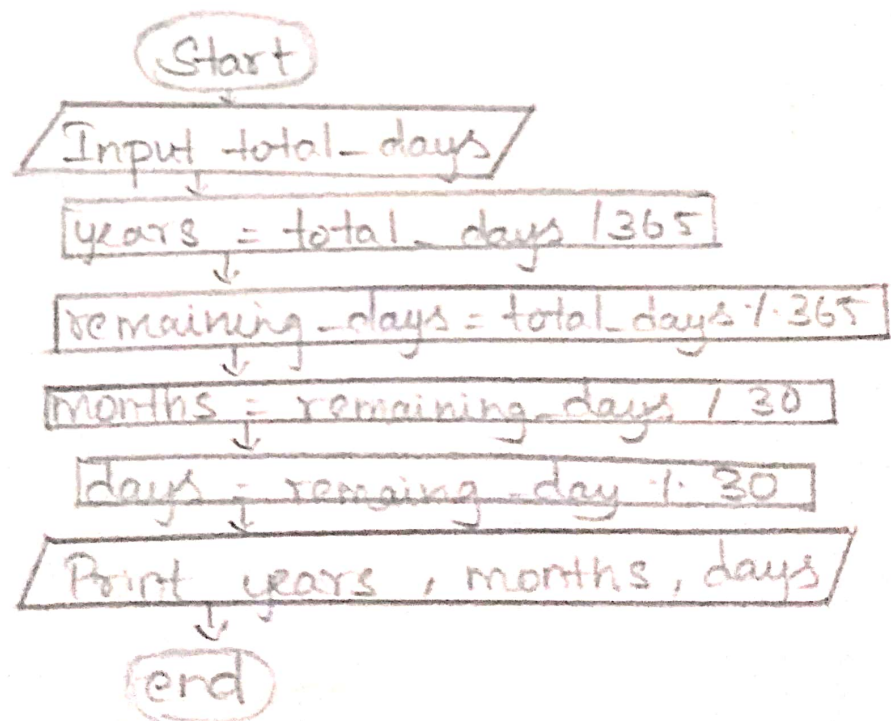
Days to Year Conversion

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

Algorithm:

- Step 1: Start
 Step 2: Read value for total_days
 Step 3: $\text{years} = \text{total_days} / 365$
 Step 4: $\text{remaining_days} = \text{total_days} \% 365$
 Step 5: $\text{months} = \text{remaining_days} / 30$
 Step 6: $\text{days} = \text{remaining_days} \% 30$
 Step 7: display years, months, days
 Step 8: end

Flowchart:



PPL

Ex. No.: III

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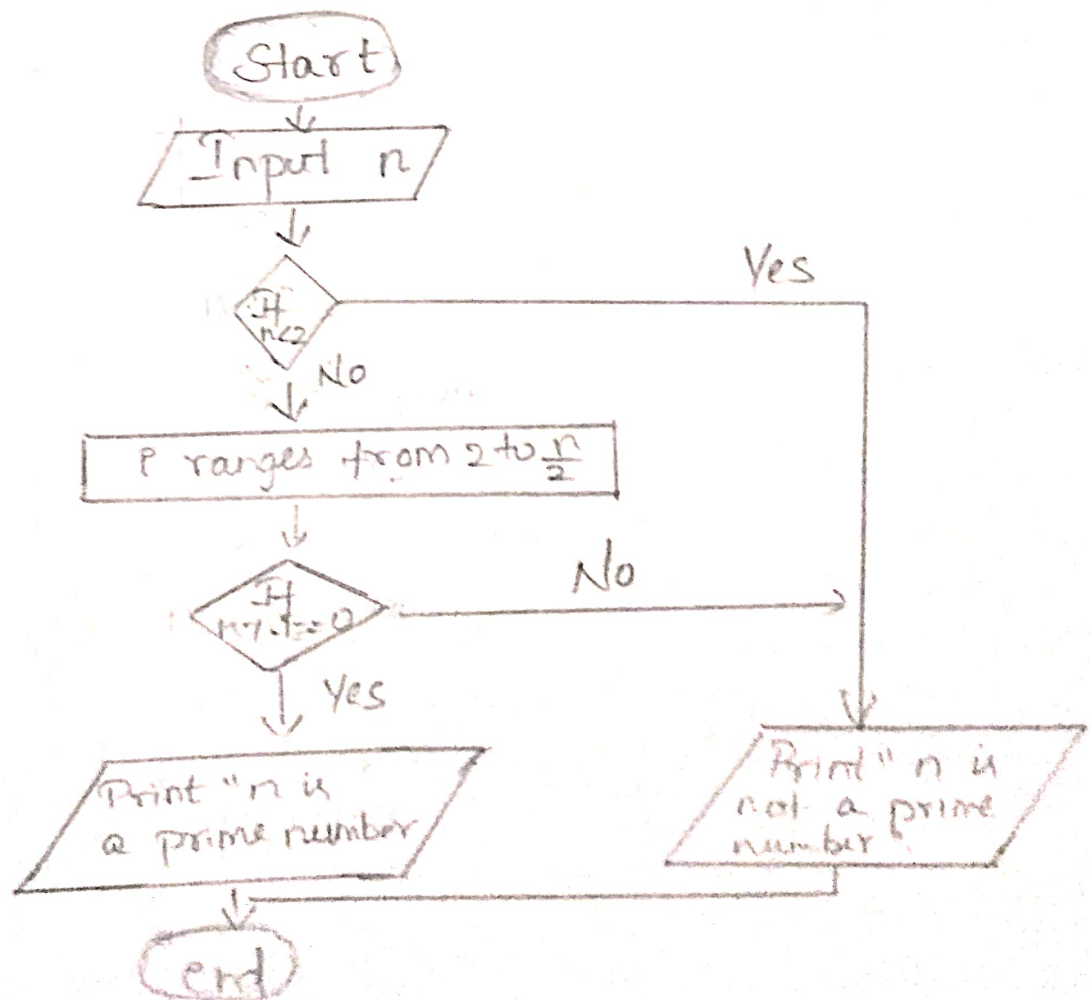
Prime Number

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 for n
- Step 3 : Make variable i ranging from 2 to $n/2$
- Step 4 : If n is less than 2 print n is not a prime number
- Step 5 : If $n \% i = 0$ then print n is a prime number else print n is not a prime number
- Step 6 : end

Flowchart:



PPR

Ex. No.: IV

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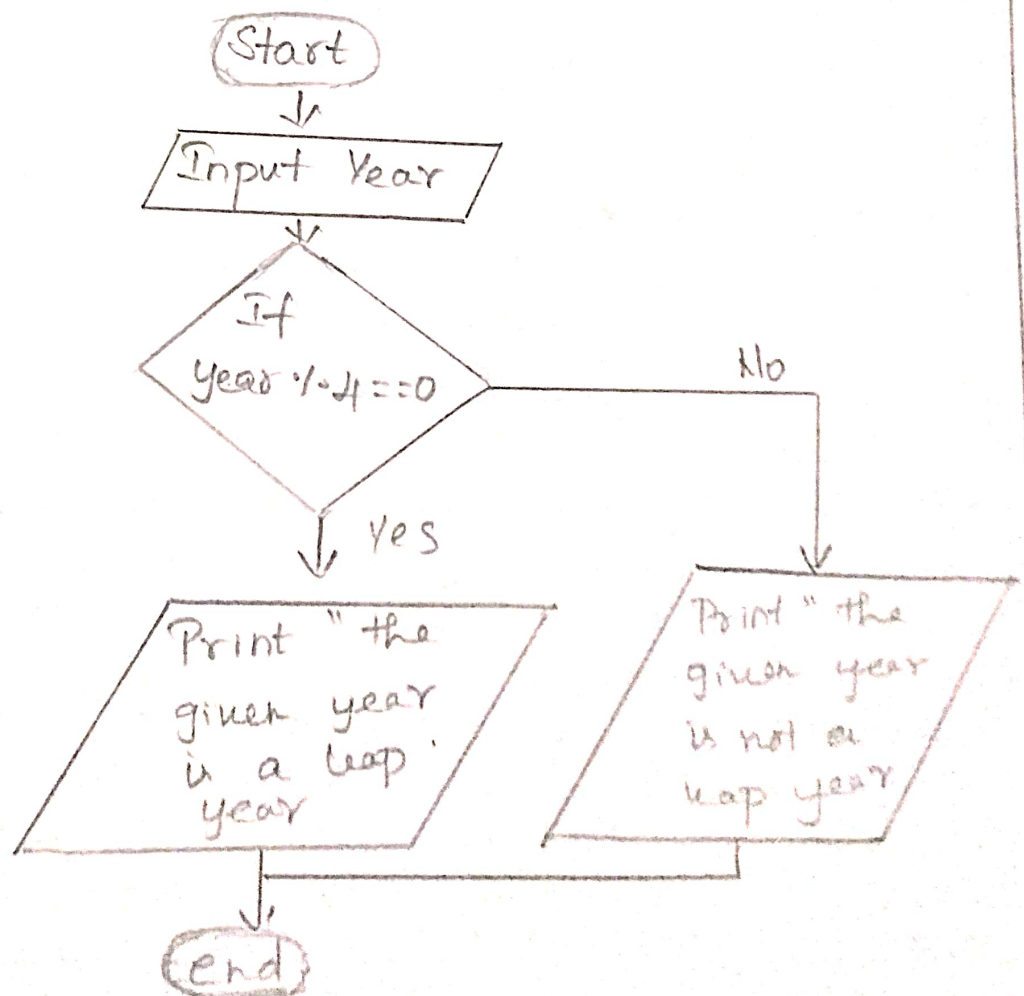
Leap Year

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 value for year.
- Step 3 : If $\text{year} \% 4 == 0$ then print "the given year is a leap year". Else print "the given year is not a leap year".
- Step 4 : End.

Flowchart:

*ppp*

Ex. No.: 5

Date: 18/10/2024

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 value for num and store in temporary variable (num)

Step 3 : Make variable reverse = num

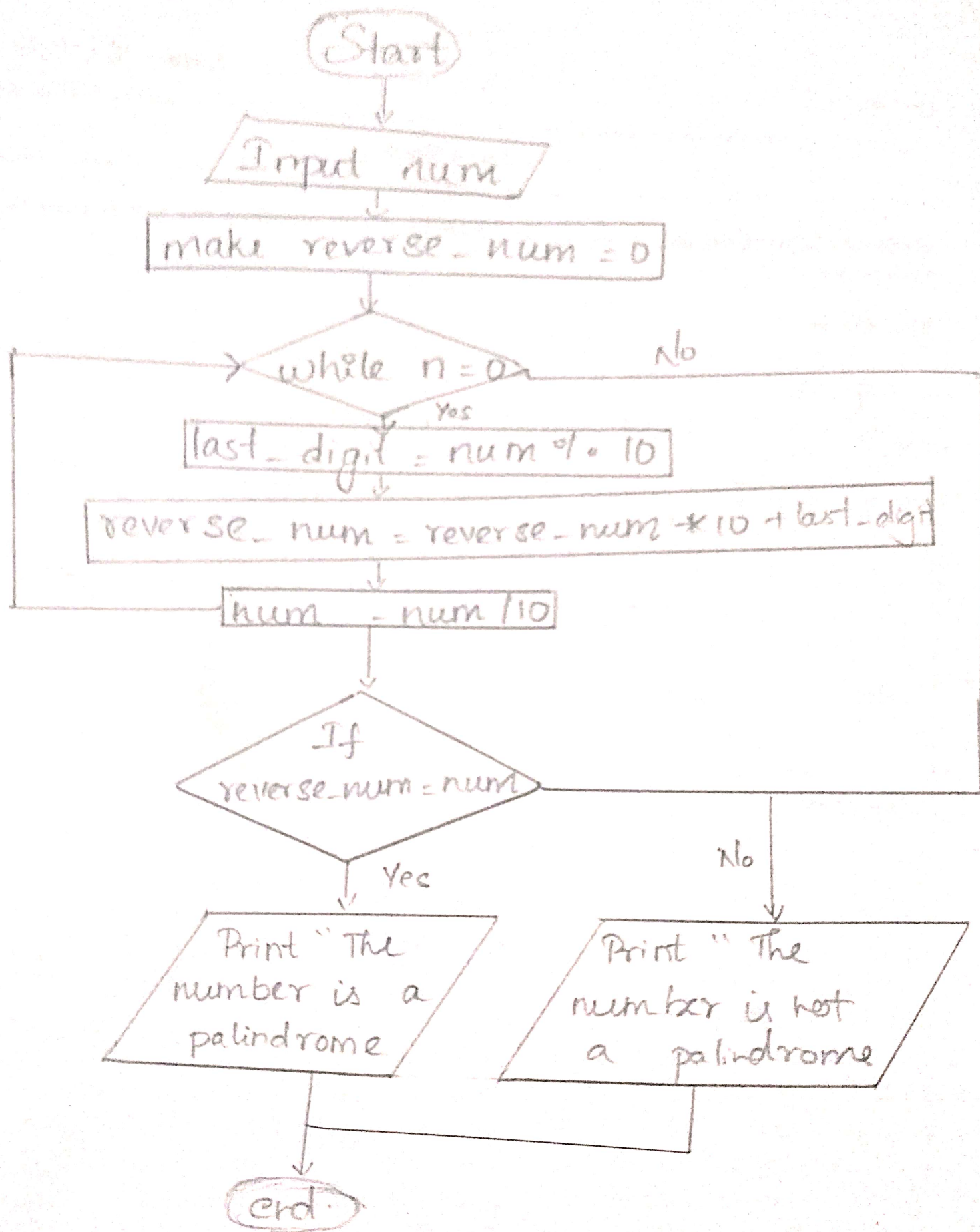
Step 4 : while num > 0
 last-digit = num % 10
 reverse = reverse * 10 + last-digit
 num = num / 10

Step 5 : If reverse == num then print "The number is a palindrome". else print "The number is not palindrome".

Step 6 : end

Flowchart:

P.P. 12



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 value for n
Step 3 : Make a variable sum
Step 4 : while $n > 0$
 $r = n \% 10$
 $sum = sum + r$
 $n = n / 10$
Step 5 : print sum
Step 6 : end

Flowchart:

