

## **Algorithm & Flowchart**

Ex. No.:

Date:

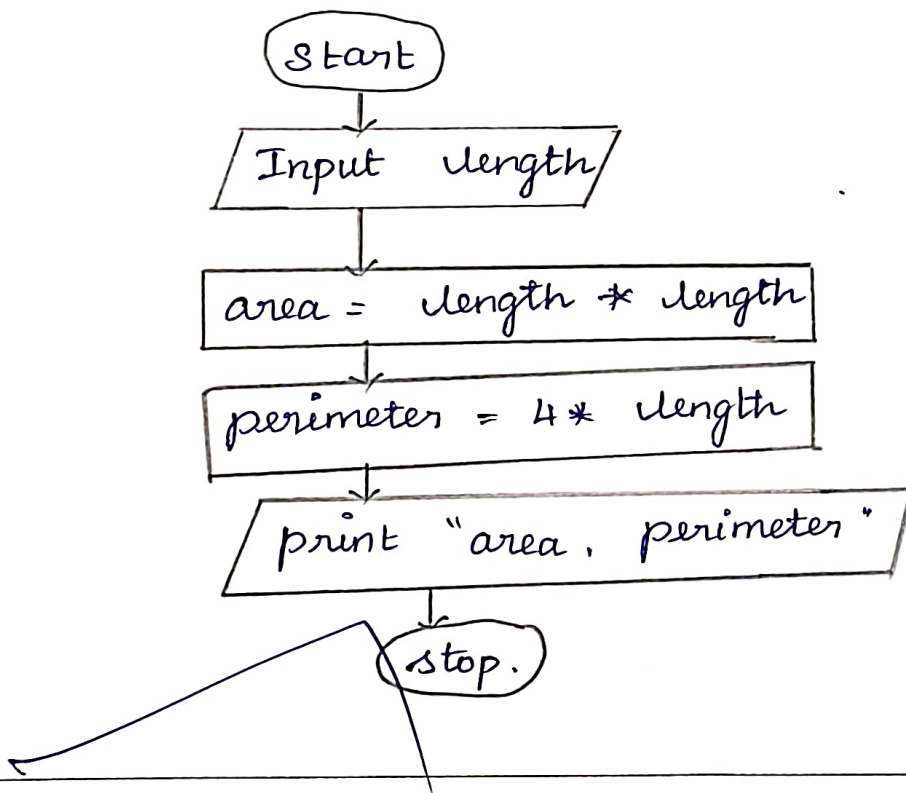
**Calculate Area and Perimeter**

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

**Algorithm:**

- step 1 : start  
step 2 : Input length  
step 3 : calculate  $\text{area} = \text{length} * \text{length}$   
step 4 : calculate  $\text{perimeter} = 4 * \text{length}$   
step 5 : print "area, perimeter"  
step 6 : stop.

Name: Renuka Devi S  
Roll No: 240901086

**Flowchart:**

Ex. No.:

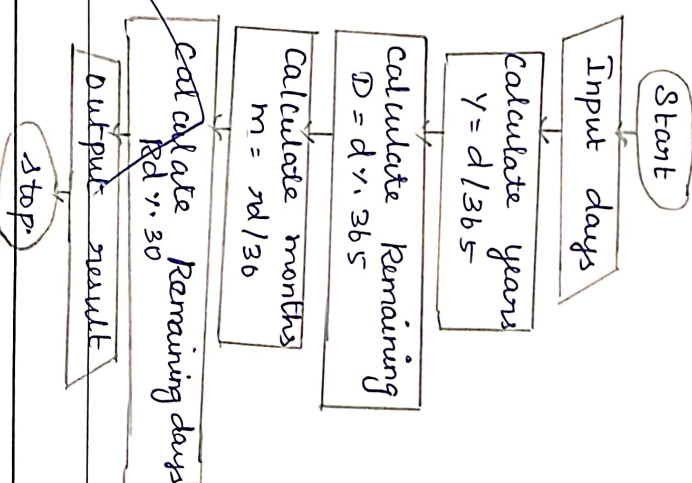
## Days to Year Conversion

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

Algorithm:

- Step 1: Start
- Step 2: Input number of days
- Step 3: Compute years  $\text{years} = \text{td} \div 365$
- Step 4: Compute remaining days  $\text{REM} = \text{total days} \bmod 365$
- Step 5: Compute remaining days (days  $\text{REM} \bmod 30$ )
- Step 6: Display years, month
- Step 7: Stop.

Flowchart:



Ex. No.:

Name: Ravin<sup>9</sup> Sait

Date: 18/10/2018

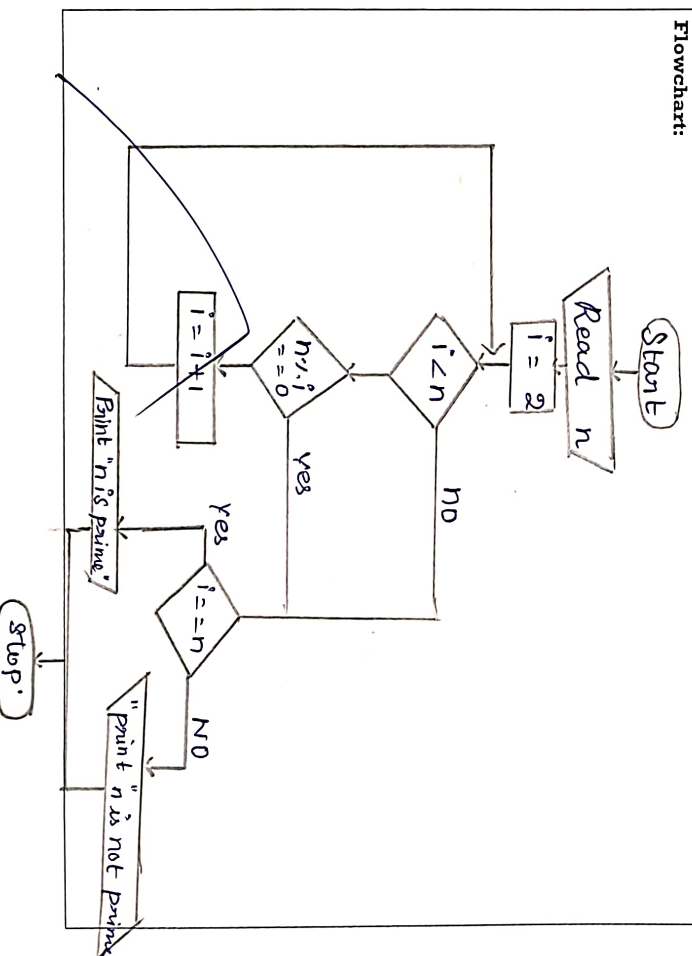
## Prime Number

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

Algorithm:

- Step 1: Start  
 Step 2: Read num  
 Step 3: Set  $i = 2$   
 Step 4: Repeat step 5 & 6 until  $i \leq \text{num}$   
 Step 5: Check the conditions  
 Step 6: Set  $i = i + 1$   
 Step 7: If  $i = \text{num}$  then print "num is prime" else "num is not prime"  
 Step 8: Stop

Flowchart:



Ex. No.:

Date: Roll No: 2110901066

## Leap Year

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

Step 1 : Start

Algorithm: Step 2 : Input year

Step 3 : If  $\text{year \% 4} == 0$  go to step 4,

Step 4 : If  $\text{year \% 100} == 0$  go to step 5

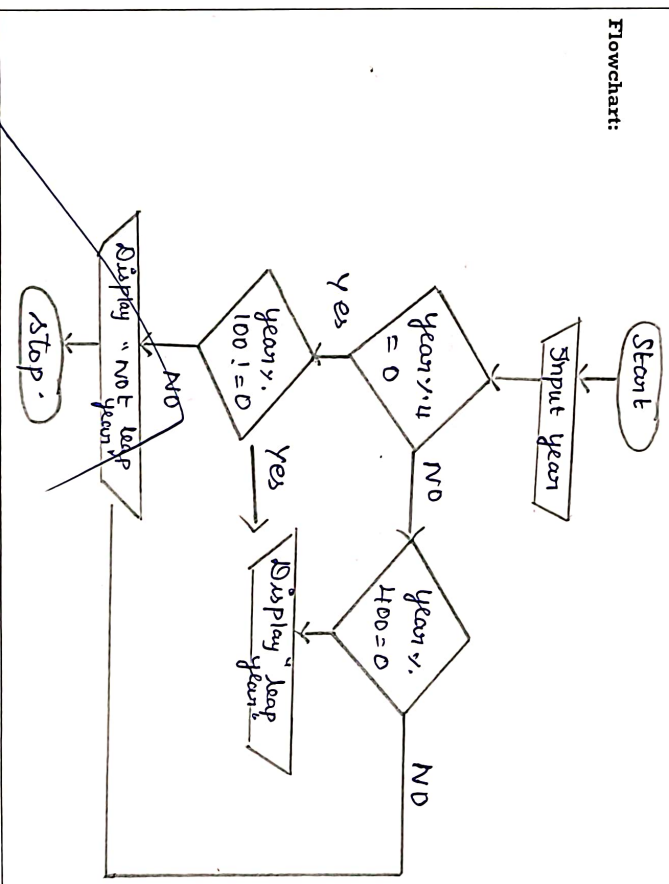
Step 5 : If  $\text{year \% 400} == 0$

print "Leap year"

else print "Not leap year"

Step 6 : Stop

Flowchart:



Ex. No.:

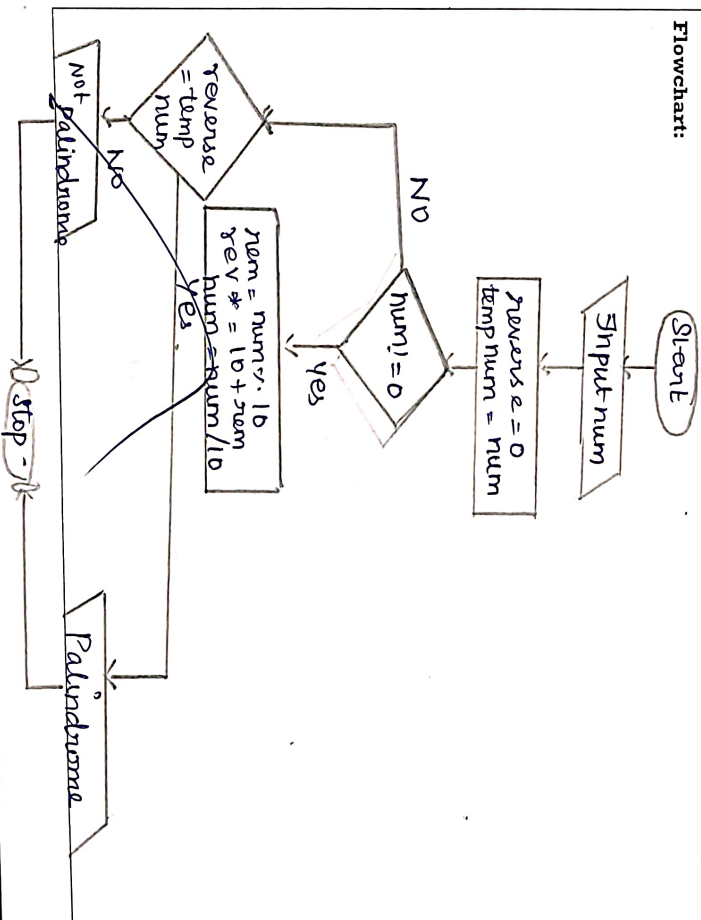
## Palindrome Number

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 n  
 Step 3: Declare temp = n, rev = 0  
 Step 4: rem = n % 10  
 Step 5: rev = rev \* 10 + rem  
 Step 6: n = n / 10  
 Step 7: if (n > 0) then goto step 4 to 6 else go to step 8  
 Step 8: if (temp == rev) then print "palindrome num" else "not palindrome num"  
 Step 9: Stop.

Flowchart:





Ex. No.:

## 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-no. A  
 Step 3: Assign sum = 0  
 Step 4:  $R = A \% 10$   
 Step 5:  $Sum = Sum + R$   
 Step 6:  $A = A / 10$   
 Step 7: If  $(A > 0)$  go to step 4  
 Step 8: Display Sum  
 Step 9: stop.

Flowchart:

