Ex No: 1

Roll No: 241901085
Date: 27/9/24

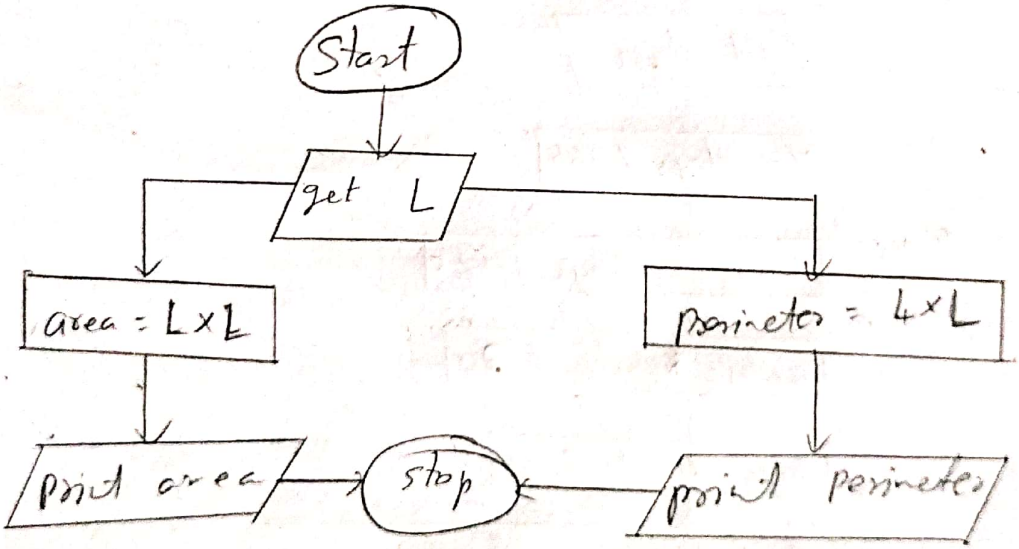
Calculate Area and Perimeter

Write an Algorithm and draw a flowchart to calculate the area and Perimeter of a square.

Algorithm:

Step 1: start
Step 2: Input side length as L
step 3: Area = L * L = A
Step 4: Perimeter = 4 * L = P
step 5: print A
step 6: print P
step 7: stop.

Flowchart:



Ex: No: 2 Date: 27/9/24

Days to year conversion

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

Algorithm:

Step 1: Read the value for total days.

Step 2: Years = total days / 365

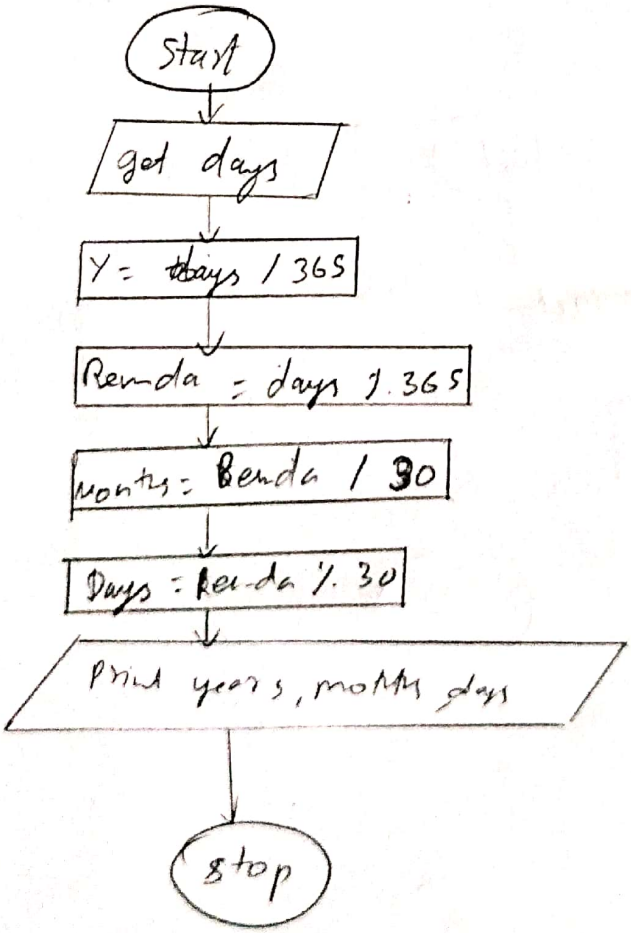
Step 3: Remaining days = total days % 365

Step 4: Months = remaining days % 30

Step 5: days = remaining days % 30

Step 6: display years, months, days.

Flowchart:



Ex No: 3

Date: 18/10/24

Prime Number

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

Algorithm:

step1 : start

Step2 : Read the value of x

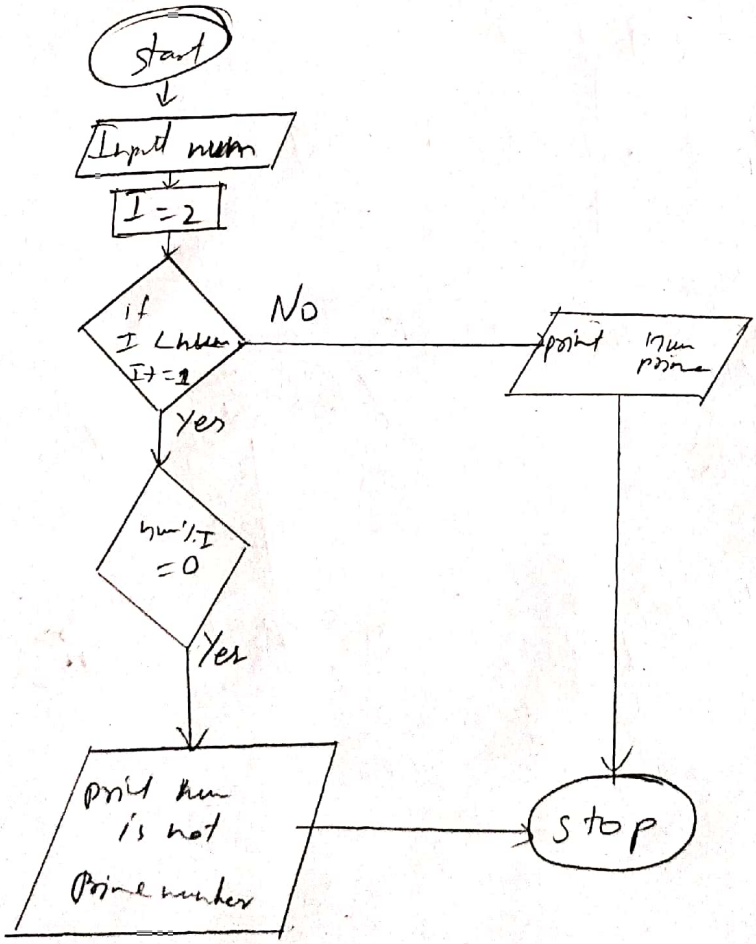
Step 3 : Divide x by the numbers between (2 & x -1)

step 4 : If x is divided by any numbers between (2 & x -1) print x is not prime number.

step 5 : Else print x is prime number.

step 6 : stop:

Flowchart:



Ex No: 4 Date: 18/10/24

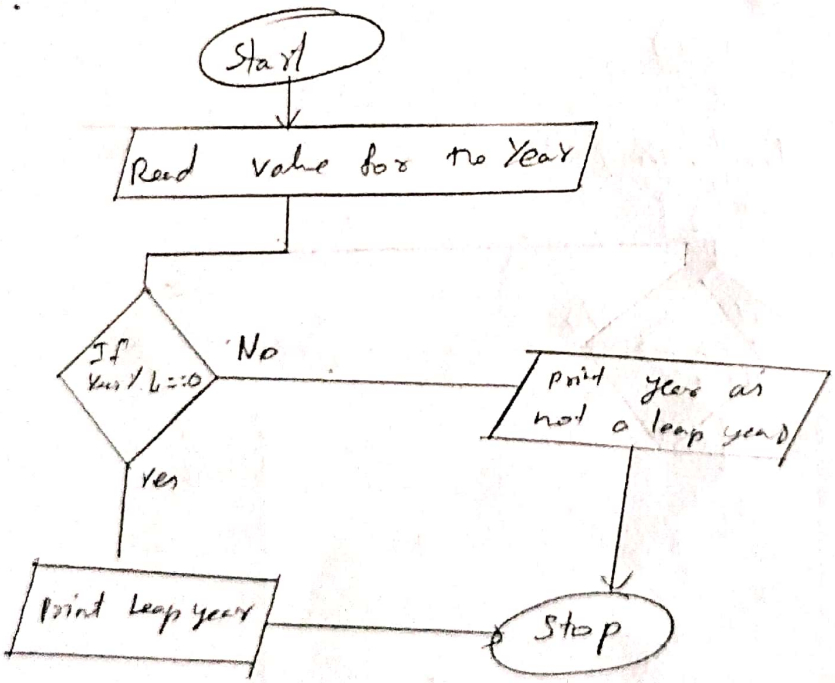
Leap Year

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

Algorithm:

step1: start.
step2: Read the value for the year
step3: If year % 4 == 0.
step 4: Print year is leap year
step 5: Else print year is not leap year.
step 6: Stop.

Flowchart:



Ex No: 5 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: Read num.

Step 2: declare rev & input to temp num = num.

Step 3: then loop until num != 0 becomes false

while num > 0

rem = num % 10

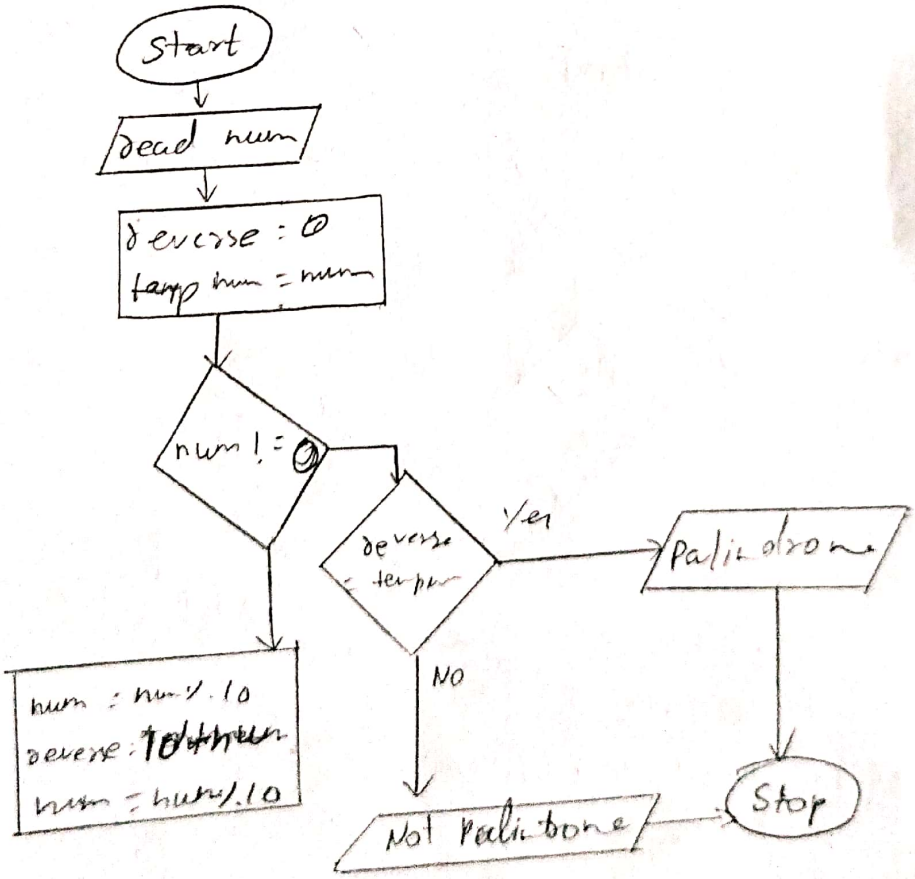
rev* = 10 + rem

num = num / 10.

Step 4: check rev = temp num

Step 5: If step 4 is true, print it is palindrome

Flowchart:



Ex No: 6 Date: 18/10/24

Sum of Digits.

Write an Algorithm and draw a Flowchart the sum of digits in the given number.

Algorithm:

step1 : Read n

step2: Declare sum = 0

step3: Declare remainder = n % 10 & declare sum = sum + remainder
n = n / 10.

step4: If (N > 0) then go to step 4, else go to step5

step5: print sum

Flowchart: