

Ex. No.: I

Date: ~~22-10-24~~ 22-10-24**Calculate Area and Perimeter**

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

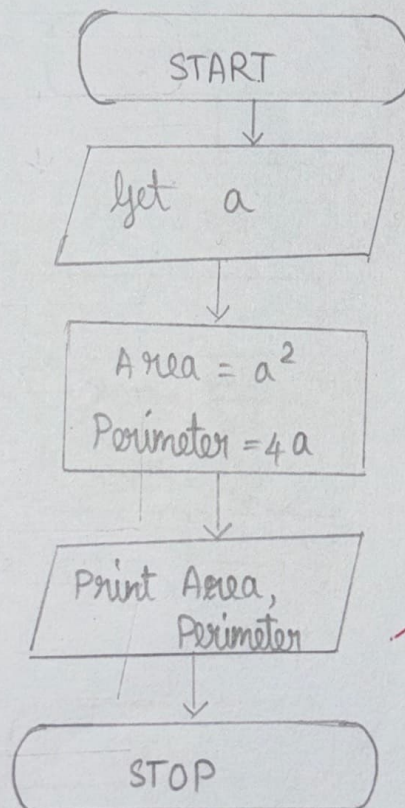
Algorithm:

STEP 1: Take the sides of the square as  $a$ . let the value of  $a$ .

STEP 2: To find the area of the square  $\text{Area} = a^2$ . Print area.

STEP 3: To find the Perimeter of the square.  $\text{Perimeter} = 4a$ . Print Perimeter.

Flowchart:





Ex. No.: II

22.10.24  
Date: 18-10-24

## Days to Year Conversion

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

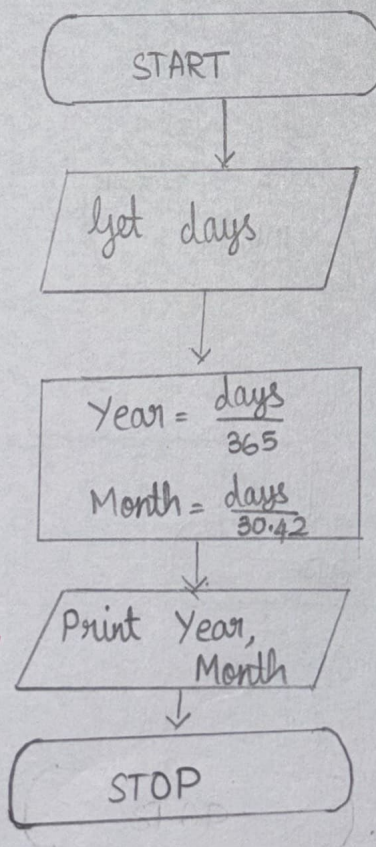
Algorithm:

STEP 1: Get the number of days

STEP 2:  $\text{Year} = \text{days} / 365$ . Print Year.

STEP 3:  $\text{Month} = \text{days} / 30.42$ . Print Month.

Flowchart:





Ex. No.: IIIDate: 22.10.24**Prime Number**

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

**Algorithm:**

STEP 1: Get a number  $n$ .

STEP 2: Iterate a for loop from  $(i=2, i < n, i++)$

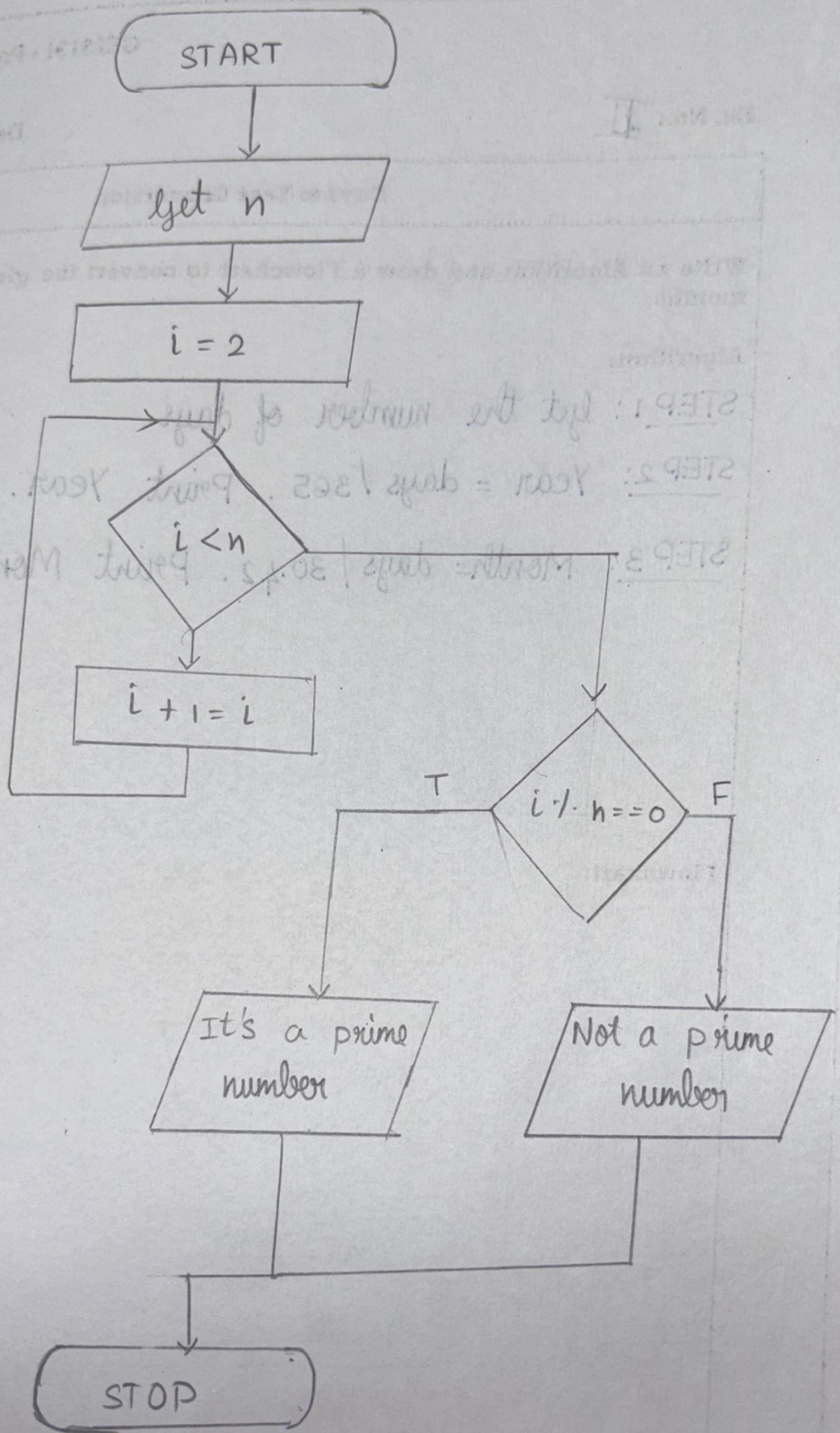
STEP 3: If  $n \% i == 0$ . Print It's not a prime number.

STEP 4: If not its a prime number.

**Flowchart:**

*RPR*







Ex. No.: 4VDate: 22.10.24**Leap Year**

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

**Algorithm:**

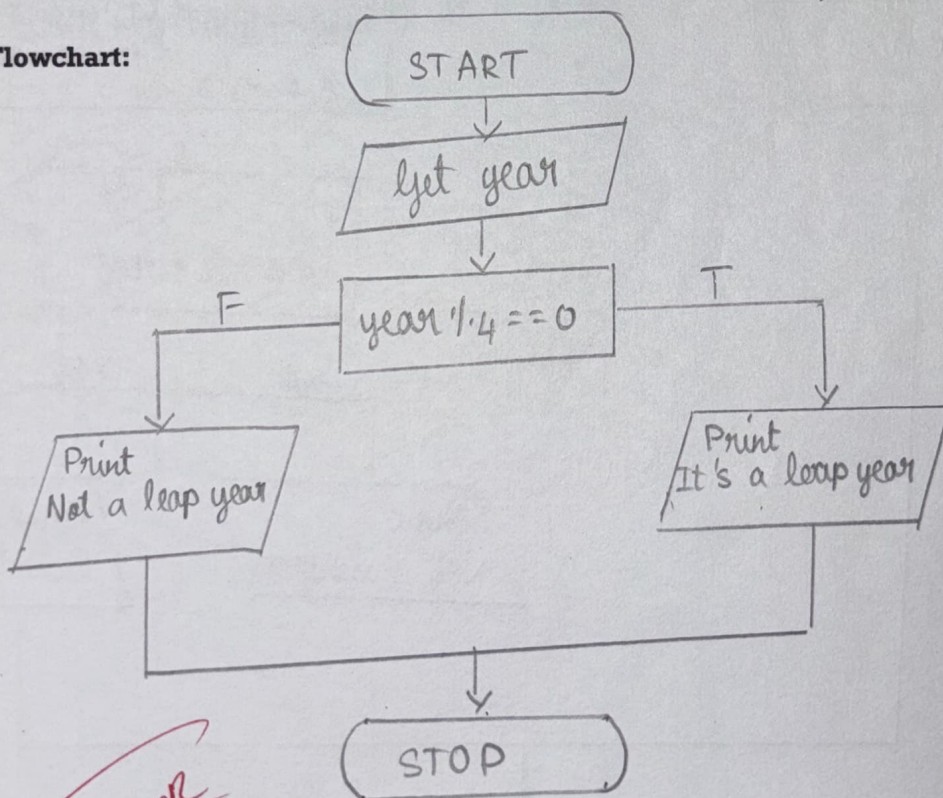
STEP 1: let the year

STEP 2: Check if  $\text{year} \% 4 == 0$

STEP 3: If true print. It's a leap year.

STEP 4: If false print It's not a leap year.

**Flowchart:**



*RPR*



Ex. No.: 5Date: 11.10.24**Palindrome Number**

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

**Algorithm:**

STEP 1: Get a number  $n$ .

STEP 2: Declare  $rev = 0$ ,  $rem$ ,  $original$

STEP 3: Assign  $Original = n$

STEP 4: When  $(n \neq 0)$ ,  $rem = n \div 10$

STEP 5:  $rev = rev * 10 + rem$

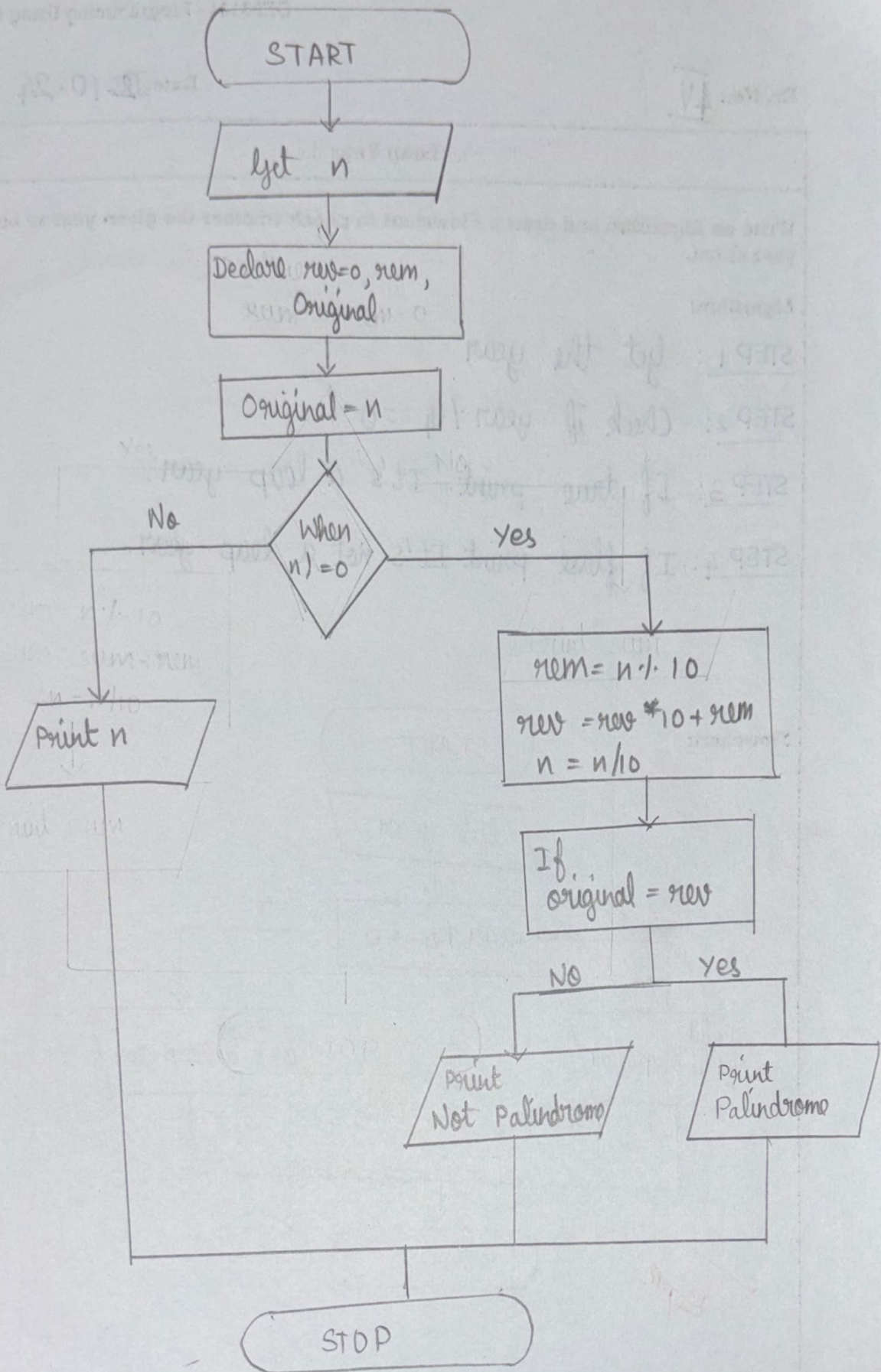
STEP 6:  $n = n / 10$ . The loop continues till the condition is true

STEP 7: If  $(original == rev)$ . It's palindrome. Or it is not palindrome.

**Flowchart:**

Rpr





Ex. No.:

8/1

Date: 22.10.24

**Sum of Digits**

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

**Algorithm:**

STEP 1: Get a number  $n$ .

STEP 2: Declare  $sum=0$ ,  $rem=0$

STEP 3: When  $n > 0$ ,  $rem = n \% 10$

STEP 4:  $sum = sum + rem$

STEP 5:  $n = n / 10$ . The loop continues till the condition is true.

STEP 6: Print  $sum$ .

**Flowchart:**