#### Calculate Area and Perimeter

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

# Algorithm:

Step 1: START

Step 2: Enter Input value for a variable 'a'.

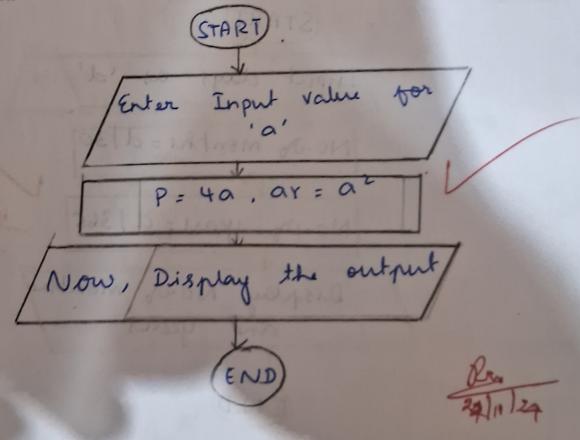
Step 3: Using formulae, p=4a and ar= a², we can calculate the perimeter and area of square

respectively

Step 4: Click run and display the output.

Sten S: END

Flowchart:



Ex. No.: 2

Date: 17/10/2 4

# Days to Year Conversion

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

## Algorithm:

Step 1: START

Step 2: Input days as 'd'

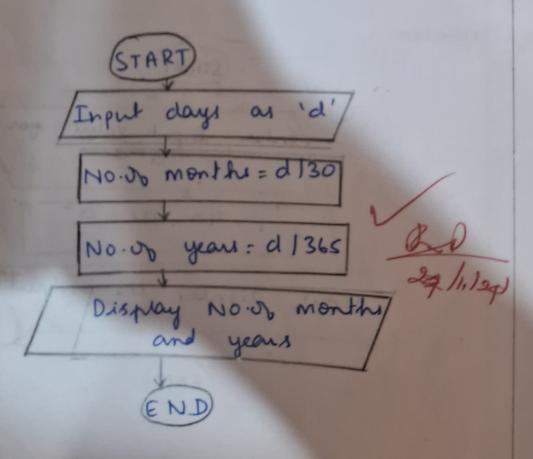
Step 3: Calculate the No.00 months: d/30

Step 4: Calculate No. 08 years: d1365

Step 5: Display No. of months and years

Step 6: END

## Flowchart:



Ex. No .: 3

Date: 17/10/29

#### Prime Number

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

## Algorithm:

Step1 : START

Step 2: Assign two inputs "number".

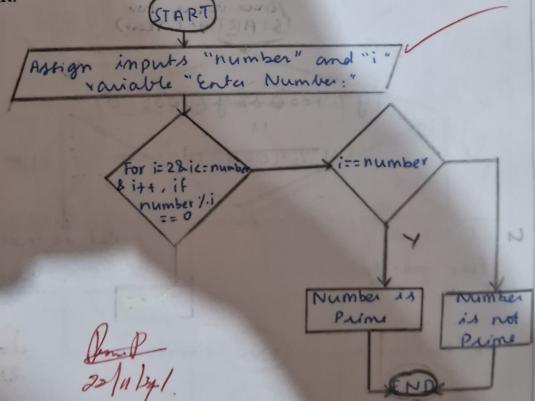
Step 3: For i = 2; i == num ber; i++, if number 1. == 0 then break the loop.

Step 4: It i == number, then print "Number is prime".

Step 5: Else, print "Number is not prime"

Sty 6: END

Flowchart:



Date: 17/10/24

143:0 4015

### 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: Hstign variable name 'Enter Year' and Enter

Step 3: 7 (y.1.4==0 and y.1.100 \$0) or 9 1.400 ==0).

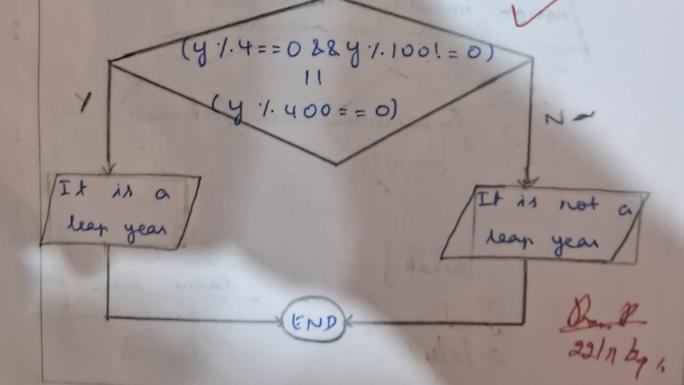
Step 4: Print "It is a leap year"

Step 5: Else, print "It is not a leap year"

Step 6: END

Flowchart:

Encer value for ... 'y' ( Year)



Date: (7/10/27

#### 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: Cret input from user.

Step 5: Declare and initialize the variable reverse and assign imput to a temp. variable temp Numerum Step 4: Start while loop until num! = 0 becomes balse. rem = num 1.10; reverse" = 10+rem; num = num/10

Step 5: Check if reverse: temp Num Step 6: If thus, then the no. is a palindrome Step 7: Else, it is not a palindrome.

Step 8: END

Read num

reverse = 0

tempNum = num

Not Palindrone

Palindrone

Not Palindrone

Date: 17/10/27

Ex. No.: 6

## Sum of Digits

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

Algorithm:

step 2: Initialize a variable sum=0 to count the

Step 3: Start a while loop with the condition that

Step 4: Add to sum the value at ones place in num as sum = sum + num. 1.10. Here, num. 1.10 represents the value of digit at the ones placed in num.

Value of digit at the ones placed in num.

Step 5: Divide num by 10 as the current digit

at ones place has been counted.

Step 6: END

