Ex. No.: 1   Date:
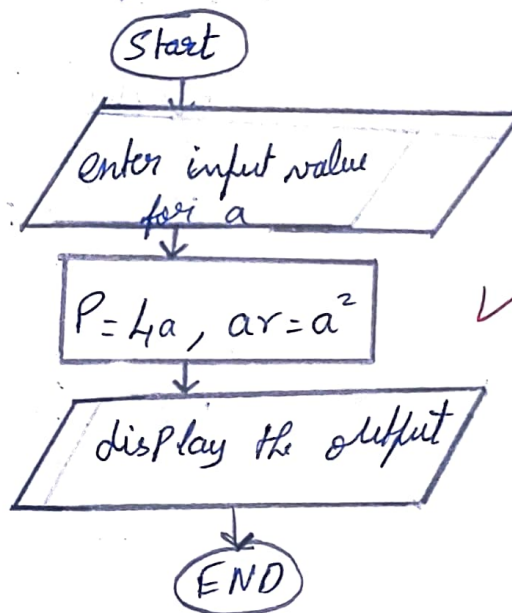
Calculate Area and Perimeter

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

Algorithm:

Step-1 - Start

Step-2 - Enter input value

Step-3 - Using formulae, $P = 4a$ and $ar = a^2$, we can calculate the Perimeter and area of square respectively

Step-4 - Click run and display the output

Step-5 - END

Flowchart:

```
            ( Start )
               |
               v
      / enter input value  /
      /      for  a        /
               |
               v
      | P = 4a , ar = a² |
               |
               v
      / display the output /
               |
               v
            ( END )
```
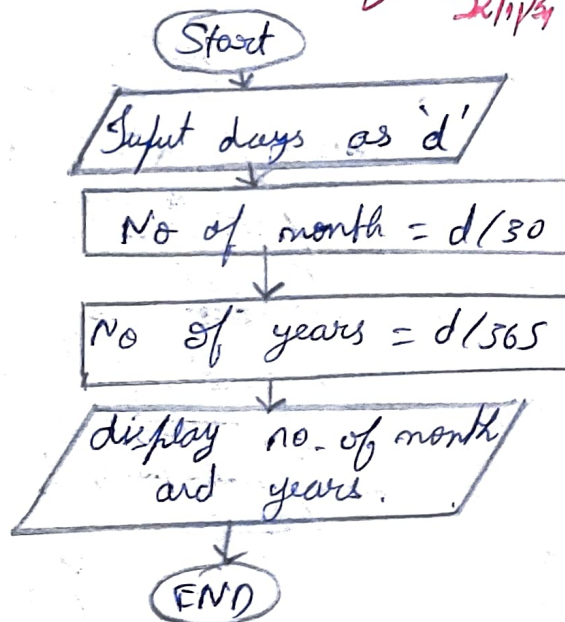
Ex. No.: 2

Date:

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 days as d
Step-3 - Calculate the no - of month = d/30
Step-4 - Calculate No . of years = d/365
Step-5 - Display no - of years and months
Step-6 - END

Flowchart:

Start

Input days as 'd'

No of month = d/30

No of years = d/365

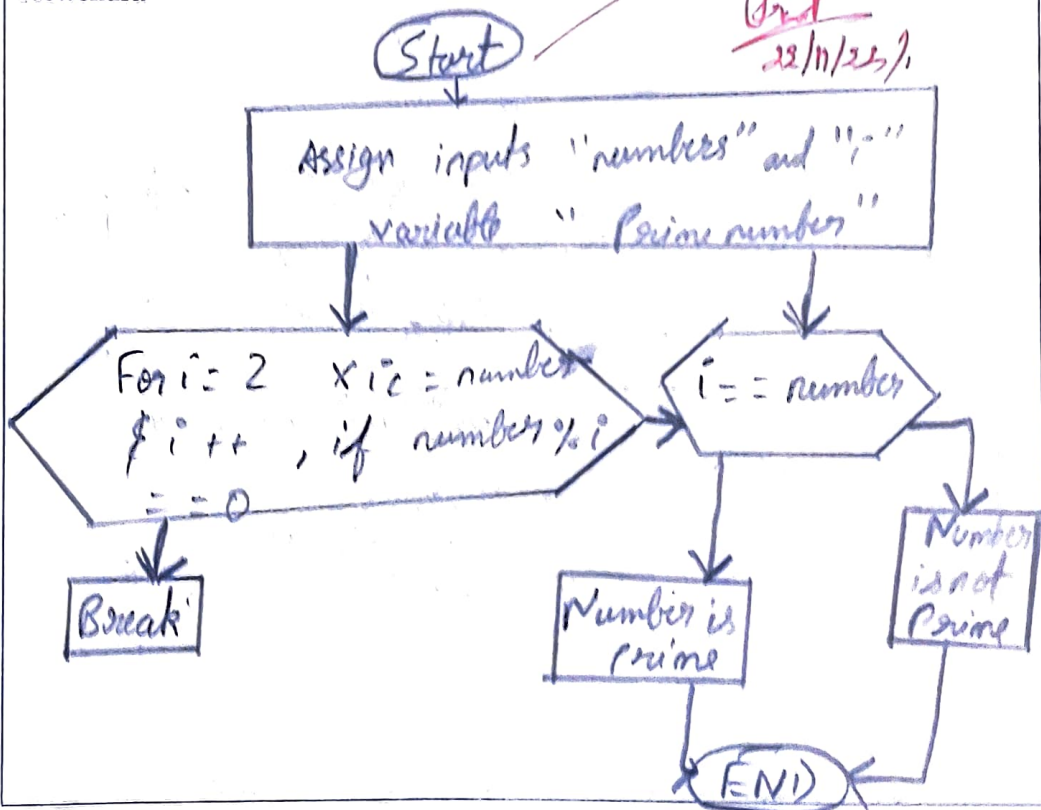display no - of month and years.

END

Ex. No.:							Date:

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 - Assign two inputs "numbers")
Step-3 - For i = 2 ; i< = number ; i++ , if number
.% . :: 0 then break the loop.
Step-4 - If i == number , then point "number is
Prime"
Step-5 : Else, point "number is not prime"
Step-6 - End.

Flowchart:

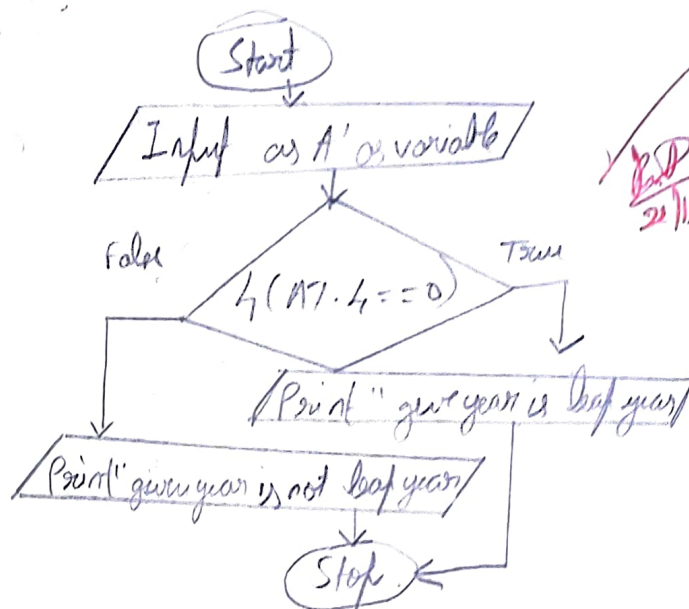Ex. No.:   Date:

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- Input as A as given year

Step-3- Using it condition gave A%4 == 0; if output is Zero

Step-4- Print 'The given year is leap year"

Step-5- Else, Print "The given year is not leap year"

Step-6- Stop.

Flowchart:

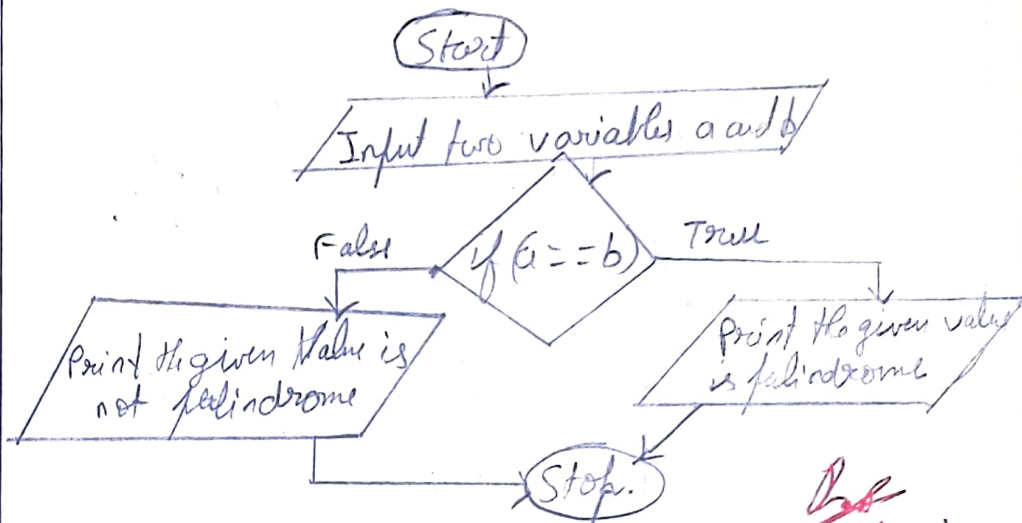Ex. No.:   Date:

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 - Assign two variable a and b, with assign number

Step-3 - Using if condition the a == b is true, then print it is palindrome

Step-4 - If not else it is not palindrome

Step-5 - Display the output

Step-6- Stop

Flowchart:

Start

Input two variables a and b

if (a==b)

False → Print the given value is not palindrome

True → Print the given value is palindrome

Stop.

Ex. No.:   Date:

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- Assign a, b as variable, Assign a value for it
Step-3- Using whileloop gave a condition that end when it comes to 0
Step-4- Split the last digit
Step-5- Add to another variable and calculate it
Step-6- Display the sum of digits
Step-7- End.

Flowchart: