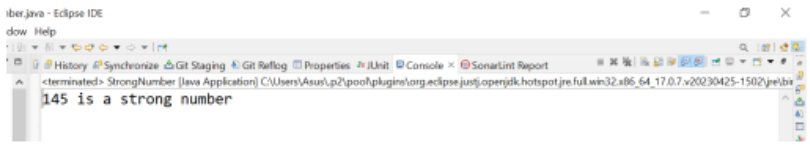
Lab (30mins): (Attempt any 2)

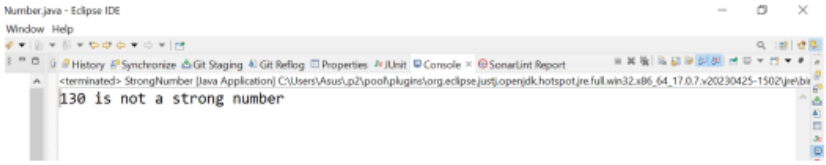
1.Write a program to check whether a number is a Strong number or not. Strong number is a special number whose sum of factorial of digits is equal to the original number.
For example: 145 is a strong number. Since, 1! + 4! + 5! = 145

[Hint: conditional operator,method,use parameterized method to take input]

Sample Input 1:
145
Expected Output:



Sample Input 1:
130
Expected Output:



2.Write a program to check leap year using if else. How to check whether a given year is a leap year or not.

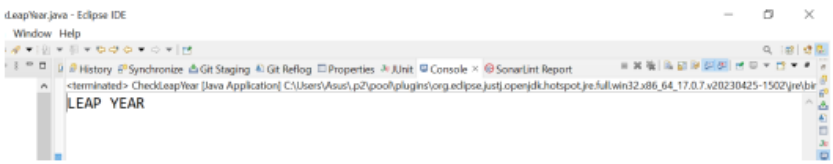
[**Hint:**Take an input of any number. Store it in some variable say **year**.

If a year is exactly divisible by 4 and not divisible by 100, then it is a leap year. Or if a year is exactly divisible by 400 then it is a leap year.]

Sample Input 1:

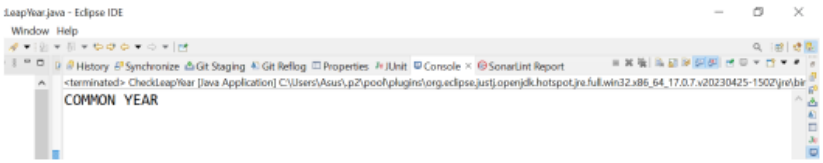
2004

Expected Output:



Sample Input 2:

Sample Input 2:



3. Create a program to calculate the annual salary of an employee by using inheritance.

Create a class named "**User**" with the following properties and methods:

Properties:
id(int): representing the id of the User
name(String):representing the name of the User

Constructor:
Declare parameterized constructor to initialize id and name.

Create a subclass named "**Employee**" that inherits from the "User" class. Add the following additional properties and methods:

Properties:
salary(double):representing the monthly salary of the employee

Method:
double calculateAnnualSalary():to calculate the annual salary earned by the employee.

In the main method, create an object of "Employee" class. Calculate the annual salary of the employee and display it..

[**Hint**:Use constructor or setter methods to set the value]

Sample Input:
Id:1
name: john
salary: 20000

Expected output: