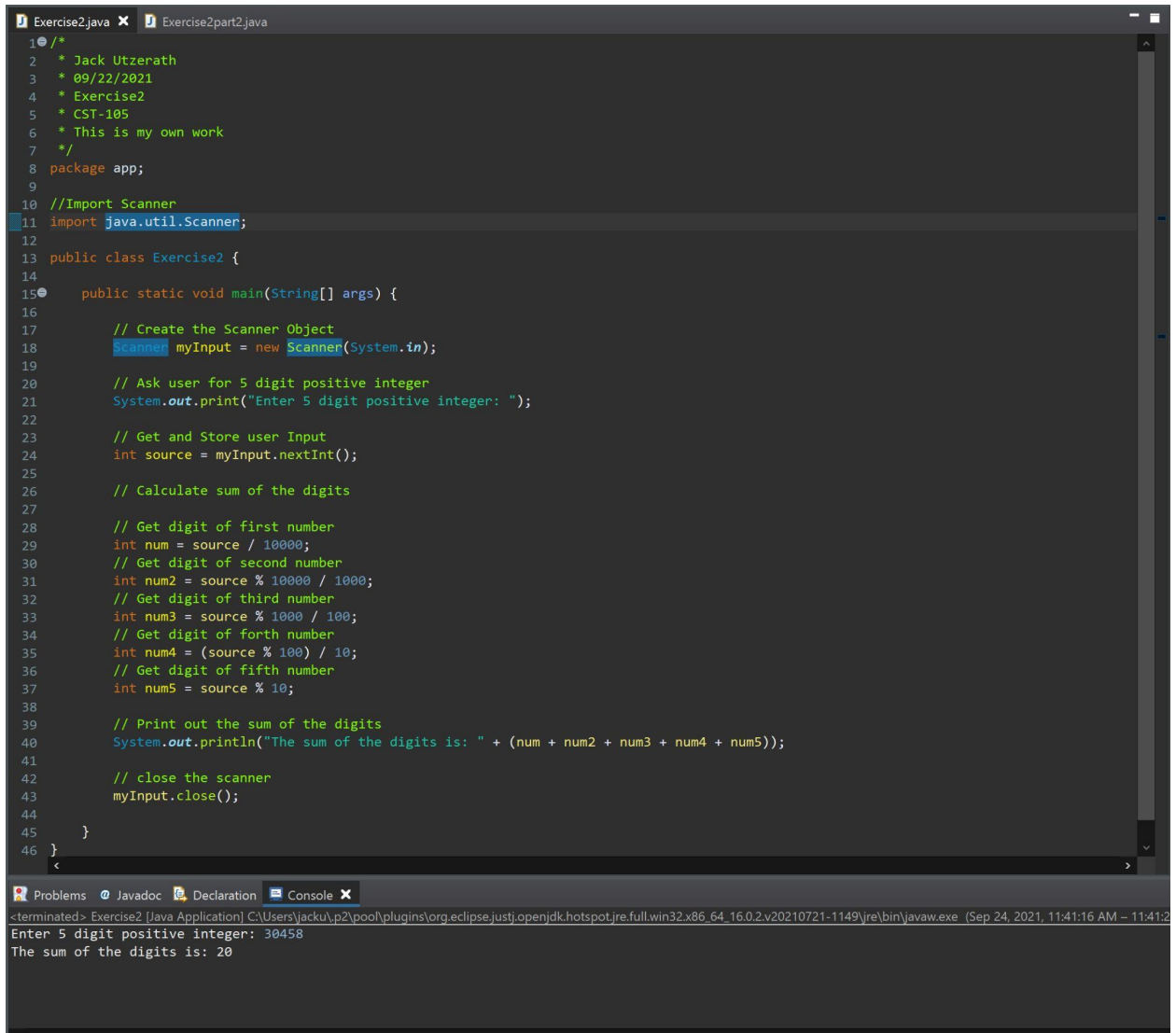Jack Utzerath
CST-105
My First Project
09/017/2021

Exercise 2

Here is a link to my loom video explaining my code:
https://www.loom.com/share/17fee279f9fc4249b87ccafcf9386a38

Here is my code:

```java
/*
 * Jack Utzerath
 * 09/22/2021
 * Exercise2
 * CST-105
 * This is my own work
 */
package app;

//Import Scanner
import java.util.Scanner;

public class Exercise2 {

    public static void main(String[] args) {

        // Create the Scanner Object
        Scanner myInput = new Scanner(System.in);

        // Ask user for 5 digit positive integer
        System.out.print("Enter 5 digit positive integer: ");

        // Get and Store user Input
        int source = myInput.nextInt();

        // Calculate sum of the digits

        // Get digit of first number
        int num = source / 10000;
        // Get digit of second number
        int num2 = source % 10000 / 1000;
        // Get digit of third number
        int num3 = source % 1000 / 100;
        // Get digit of forth number
        int num4 = (source % 100) / 10;
        // Get digit of fifth number
        int num5 = source % 10;

        // Print out the sum of the digits
        System.out.println("The sum of the digits is: " + (num + num2 + num3 + num4 + num5));

        // close the scanner
        myInput.close();

    }
}
```

Problems @ Javadoc Declaration Console X

<terminated> Exercise2 [Java Application] C:\Users\jacku\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\javaw.exe (Sep 24, 2021, 11:41:16 AM – 11:41:2

```
Enter 5 digit positive integer: 30458
The sum of the digits is: 20
```

```
   Exercise2.java    Exercise2part2.java ✕
  1 /*
  2  * Jack Utzerath
  3  * 09/22/2021
  4  * Exercise2part2
  5  * CST-105
  6  * This is my own work
  7  */
  8
  9 package app;
 10
 11 //import scanner
 12 import java.util.Scanner;
 13
 14 public class Exercise2part2 {
 15
 16     public static void main(String[] args) {
 17         // Create the Scanner Object
 18         Scanner myInput = new Scanner(System.in);
 19
 20         // Ask user for their input
 21         System.out.print("Enter a Fahrenheit Temperature: ");
 22
 23         // Get user input and store as fahrenheit
 24         int fahrenheit = myInput.nextInt();
 25
 26         // Convert fahrenheit temperature to celsius
 27         double celsius = (fahrenheit - 32) * (double) 5 / 9;
 28
 29         // Print out result
 30         System.out.println(celsius + " C");
 31
 32         // Ask user for their input
 33         System.out.print("Enter a Celsius Temperature: ");
 34
 35         // Get user input and store as celsius
 36         int celsius2 = myInput.nextInt();
 37
 38         // Convert celsius to fahrenheit
 39         double fahrenheit2 = (double) 9 / 5 * celsius2 + 32;
 40
 41         // Print out result
 42         System.out.print(fahrenheit2 + " F");
 43
 44         myInput.close();
 45     }
 46 }
```

Problems @ Javadoc Declaration Console ✕

<terminated> Exercise2part2 [Java Application] C:\Users\jacku\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\javaw.exe (Sep 24, 2021, 11:39:50 AM – 1
```
Enter a Fahrenheit Temperature: 100
37.77777777777778 C
Enter a Celsius Temperature: 100
212.0 F
```

```java
/*
 * Jack Utzerath
 * 09/22/2021
 * Exercise2
 * CST-105
 * This is my own work
 */
package app;

//Import Scanner
import java.util.Scanner;

public class Exercise2 {

    public static void main(String[] args) {

        // Create the Scanner Object
        Scanner myInput = new Scanner(System.in);

        // Ask user for 5 digit positive integer
        System.out.print("Enter 5 digit positive integer: ");

        // Get and Store user Input
        int source = myInput.nextInt();

        // Calculate sum of the digits

        // Get digit of first number
        int num = source / 10000;
        // Get digit of second number
        int num2 = source % 10000 / 1000;
        // Get digit of third number
        int num3 = source % 1000 / 100;
        // Get digit of forth number
        int num4 = (source % 100) / 10;
        // Get digit of fifth number
        int num5 = source % 10;

        // Print out the sum of the digits
```

```
                System.out.println("The sum of the digits is: " + (num + num2 + num3 + num4 +
num5));

                // close the scanner
                myInput.close();

        }
}


/*
 * Jack Utzerath
 * 09/22/2021
 * Exercise2part2
 * CST-105
 * This is my own work
 */

package app;

//import scanner
import java.util.Scanner;

public class Exercise2part2 {

        public static void main(String[] args) {
                // Create the Scanner Object
                Scanner myInput = new Scanner(System.in);

                // Ask user for their input
                System.out.print("Enter a Fahrenheit Temperature: ");

                // Get user input and store as fahrenheit
                int fahrenheit = myInput.nextInt();

                // Convert fahrenheit temperature to celsius
                double celsius = (fahrenheit - 32) * (double) 5 / 9;

                // Print out result
                System.out.println(celsius + " C");
```

```java
        // Ask user for their input
        System.out.print("Enter a Celsius Temperature: ");

        // Get user input and store as celsius
        int celsius2 = myInput.nextInt();

        // Convert celsius to fahrenheit
        double fahrenheit2 = (double) 9 / 5 * celsius2 + 32;

        // Print out result
        System.out.print(fahrenheit2 + " F");

        myInput.close();
    }
}
```