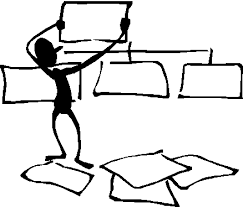
## Introduction to Software Engineering

# CMPS 2313

**Home Work #1 NAME:**

1. Your first problem is to write a program where you find all the prime numbers in a range of numbers provided by the user (prime numbers between 8 and 20 are 11, 13, 17, 19)
   1. List the possible requirements for the project

* User friendly
* Platform (Web, Desktop, Mobile)
* Timeframe
* Point and click or keyboard based
* Type of user
* Secureness
* Different kinds of input methods
* Different types of data or one type
* Budget
  1. Create a flow chart for the sequence of activities in coding the project

Identify customer requirements -> Analyze requirements -> Analyze possible problems and implementations -> Design structure of the project -> Schedule design and development of parts of the project -> Test the project – Implement and support the project

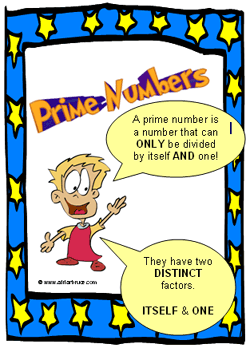
* 1. Estimate how much time to complete the project.

1 hour. 30 minutes of thinking. 30 minutes of coding and testing.

* 1. Keep track of your actual time and compare it to your estimate

1:16:59.37

I spent a good deal of time researching the best way to determine if a number is a prime number. Spent about the same amount of time implementing and ensuring proper functionality.



* 1. Write the program (be sure it is user friendly, accurate, and efficient)

<https://github.com/Trinidena/CLASSES/tree/main/CMPS_2313_CLASS_WORK/HW1_Prime_Numbers>

I used SceneBuilder to create the interface the user would interact with. I imported the BigInteger library to use the isProbablePrime() method to check all numbers in the range entered by the user.

I could add a warning that pops up if the user enters anything but a number into the range.