Lab 2 Homework:

Please complete the following activities for the “Manipulating mindset to positively influence introductory programming performance” paper.

**Introduction**

**Read through the introduction and answer the following questions.**

1. **What are the scientists doing?** 
   * Testing if small changes in a programming course can encourage a growth mindset and improve student performance.
2. **Why are they doing this experiment?** 
   * To see if trying to change students mindsets can help them perform better
3. **Why did they set up the experiment the way they did? (Previous Studies)** 
   * To test a different aspect that previous studies hadn’t tested before. They wanted to test both the outcome of mindset interventions on student beliefs and their performance
4. **What do they expect to find?** 
   * That student perform better and shift to more of a growth mindset
5. **What are the real world applications of this study?** 
   * Teachers could design their courses to help students better develop growth mindsets and do better in class

**Results**

**Look at the study’s figures and answer the following questions.**

1. **What are the titles of the figures?**
   * Figure 1. Plot of Means showing shift in mindset between wks 1 & 7 according to mindset training intervention
   * Figure 2. Plot of Means showing first class test performance shift by mindset training and rubric interventions
   * Figure 3. Plot of Means showing final exam performance shift by mindset training and rubric intervention
2. **What are the control and experimental groups in the figures?**
   * Control: No mindset training intervention
   * Experimental: With mindset training intervention
3. **What variables can you identify from the figures?** 
   * Week 1, week 7, no rubric, with rubric
4. **What are they measuring in each figure?**
   * Mindset score and then test scores for two different exams
5. **How do the researcher’s findings impact our understanding? (inferences)**
   * It seems that having mindset training intervention in addition to a rubric has a significant increase on test scores

**Cartoon**

**Now read through the method section of the paper. Piece together the story and compile a cartoon for the paper. Take a picture of your cartoon and include that image below.**

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