Experiment 2: <u>Knowledge Elicitation</u>

For this case study, you are expected to obtain knowledge from a specific domain in groups of 2 using the techniques learned from the first 5 lectures.

Planning and Conducting Your Research
You should plan your knowledge elicitation study in advance with the pros and cons of the research methods in mind. The selected topic should not be too difficult nor too easy so that it is challenging for you to learn but not too challenging for you to find enough experts. In other words, you are highly suggested to discuss with me before you decide on your targeted topic.

You should include at least **4 techniques/methods** learned in previous lectures and present the results from each of the techniques.

<u>Requirements and Analysis</u>
As we have not learned statistical models in our course, conducting inferential statistical analyses is not expected, but you should present your results in a meaningful and easy-to-understand way. Be sure to keep your data, so that we can use it later on when we learn statistical models.

The ultimate goal of the study is to make sure your readers, who do not know the task/knowledge, can have basic to medium knowledge regarding how to conduct the task. Thus, you should not just present your results separately, but also organize them in an easy-to-understand way. It is up to you how many participants are needed for each technique. There is no standard, but you should make sure to include a "reasonable" number of participants to draw a solid conclusion.

<u>Suggestions for Preparing Your Report</u>
- Make sure to present the details of the method you used to obtain your results, and the steps that you took to arrive at your experimental design decisions.
- As with most experiments in this course, there are always limitations. Discuss the limitations that you discovered with your experiment(s). Don't be afraid to reveal any errors or bad decisions that you made; that's how one learns!
- The reports should be in the format of a research paper and MUST have a title, authors, abstract (less than 250 words), introduction, method, results, discussions, conclusions, and reference list.

<u>Deadline:</u> <u>23:59pm of Oct 23, 2022</u>, with late penalty = $1\% * 2^{\wedge}(n-1)$, up to 20%.