

**ASSIGNMENT 2**  
**CSE 155 • Fall 2025**

**CASE STUDY (6.5 PTS)**

Your company is developing a new smartwatch app but is uncertain about the type of feedback to provide for user actions (e.g., taps or gestures). The options being considered are visual, auditory, and tactile (vibration) feedback. Your manager has asked you to conduct an empirical study to determine which feedback type is most effective in terms of speed and accuracy. Based on the results, they will choose the feedback type to implement. The following questions pertain to the design and evaluation of this study.



**YOUR NAME:**

1) Which study design would you choose (**0.5 PTS**), and why (**1 PTS**)?

2) What are your independent variable(s)? (**1 PTS**) What are the levels of your independent variable(s)? (**1 PTS**)

4) Identify two quantitative dependent variables (**1 PTS**). Explain how you would measure them and why recording these variables is important for this study. (**1 PTS**) What types of data would these collect, explain. (**1 PTS**)