Lab 1: Capacitive touch passcode

E21 Lab Report

Name 1 and Name 2

1. Compile a table of all the readings you collected. Use the provided table below.

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| Object | Person | Before | During | After |
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1. Which object has the smallest differences between *before* and *during* readings? (E.g. the quantity *during* minus *before*) Which object has the largest differences?
2. Do you see any significant difference between *before* and *after* readings for any object? How large are they compared to the *before*-vs-*during* differences?
3. Does the object being touched significantly affect the readings in any other ways (e.g. do their graphs look visually different)? Does one group member tend to have larger or smaller readings than another?
4. What argument passed to **cp.adjust\_touch\_threshold()** gave you the best result? How did your work in Exercise 1 inform the process of adjusting the threshold?
5. Describe your approach to solving this exercise. Was there a “eureka” moment? Did completing this task in lab lead you to think about **if** statements in a different way than you thought about them in class?
6. What “Going further” activity did you choose? Briefly describe how you went about completing this exercise. You may include a video in your submission.
7. Did all group members contribute equally to all tasks? If not, who did what for each exercise?