2. [3 Pts] Research Question: Propose 2 solutions for handling the bouncing problem other than the one used in the lab.

1. Using a capacitor with the button such that pressing the button charges the capacitor and releasing it discharges it. This reduces the noise of bouncing from the switch. The size of the capacitor depends on the expected bounce duration as well as the circuits operational frequency.

2. The time delay debouncing method waits a short time after a button press before checking it again, to avoid the effects of bouncing. This makes sure only a steady press is counted by embedding a delay in the code that waits for a while to ensure the button signal is no longer causing bouncing noise and is stable enough to consider active.