

# Task 1

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**Q1:**

[https://www.tinkercad.com/things/iqfNs7DlyVF/editel?returnTo=%2Fdashboard&sharecode=pU7p672l3szd\\_Ejm6vYrQQllb9ZVbmG\\_BumjE8dnzdQ](https://www.tinkercad.com/things/iqfNs7DlyVF/editel?returnTo=%2Fdashboard&sharecode=pU7p672l3szd_Ejm6vYrQQllb9ZVbmG_BumjE8dnzdQ)

**Q2:** The problem I faced called button debouncing. It occurs when pressing the mechanical button. Where the metal inside don't settle immediately. Instead they bounce rapidly for a few milliseconds. This causes your Arduino to think you've pressed the button multiple times, even though it was a single press.

**Q3:**

[https://www.tinkercad.com/things/aXEaENj0Bd5/editel?returnTo=%2Fdashboard&sharecode=j8kQKIPcWhqpq0cOkVDglZyxVcXCwRVGonS1c\\_EJlIM](https://www.tinkercad.com/things/aXEaENj0Bd5/editel?returnTo=%2Fdashboard&sharecode=j8kQKIPcWhqpq0cOkVDglZyxVcXCwRVGonS1c_EJlIM)