## Q1 What did you do?

[3 points]

List the tasks you managed to complete in the period between now and your last design review meeting (or up till now if this is your 1st). A good way to do this is to group tasks accomplished into multiple sub-lists, with each sub-list related to each subsystem that is currently being worked on.

* Decided on Design Project, namely a garden irrigation system Hat (a Sense Hat at its core)
* Looked at 3 design specifications:
* (1) A switching power regulator: Regulate 12V to power the 2-valve system.
* (2) 3 or more status LEDs (or more and/or buttons if desired): use LEDs as (a) on/off indicators for each valve as well as to display (b) display soil moisture levels (wet/dry).
* (3) An input signal: An analog signal adjusted by a simple Opamp based amplifier to output a signal between 0 - 3.3V: use for moisture sensors to calculate degree of moisture in soil. Very wet soil would output 3.3V and dry soil would output 0V.

## Q2 What do you plan to do in the next period?

[3 points]

List the tasks you plan to complete in the period between now and your next design review meeting. A good way to do this is to group tasks into multiple sub-lists, with each sub-list related to each subsystem that is currently being worked on.

* Decide on complexity of circuits.
* Make block diagrams for each sub-circuit system.
* Decide on what Software we are going to use to simulate our design.

## Q3 What might go wrong?

[3 points]

List any potential barriers to the team successfully executing the plan, and outline any steps that could be taken to mitigate against such risks if they exist. As in Q1 & Q2, if helpful break it down by design subsystem.

* Design proves too complex. Requires further research and analysis to determine.
* Incorrect block diagrams. Possibly use physical component UML diagrams to ensure correctly done.
* Might run out of time to complete aims, due to possible load shedding delays. Mitigate by keeping up to date with load shedding schedules.

## Q4

[1 point]

Leave blank. Tutor will allocate 1 mark if this was submitted prior to the groups selected review meeting time.  
**(For the 1st review meeting only**, this mark will be awarded to all groups provided review report is submitted before assignment expires on Gradescope)

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