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| **Mission 8 Assignment Log** | **Name:** |
| **Pre-Mission Preparation** | |
| You have been learning about finite-state machines and the different states a program can be in. This mission will prepare the spacecraft to land on Mars. What states do you think the landing will have? |  |
| **Mission 8 Checks** | |
| Objective #1  What are the three phases of this mission? | |  |  | | --- | --- | | Phase | Details | |  |  | |  |  | |  |  | |
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| Objective #2  What is needed to prepare the NeoPixel ring to use as an indicator to the crew? |  |
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| Objective #3  List two facts about the object sensor |  |
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| Objective #4  Describe the “pull” on an input pin: |  |
| Objective #5  What is a reason for using lander states in the program code? |  |
| Objective #6  What is needed to complete phase 2? |  |
| Objective #7  What is the purpose of the 180 servo?  Why is it the better choice over the 360 servo? |  |
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| **Post-Mission Reflection** | |
| Explain how the mission code is a finite-state machine: |  |
| What are some applications that might use an object sensor? |  |