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| **Mission 6 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| This mission will create a loop that goes continuously. Give an example in your daily life that uses a continuous loop: |  |
| **Mission 6 Checks** | |
| Objective #1  Write the code to delay for one tenth of a second: |  |
| Objective #2  Write the code to hear a tone from the speaker:  Write the code to turn off the speaker: |  |
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| Objective #3  What is an infinite loop? |  |
| Objective #4  What is the calculation for the pause? |  |
| Objective #5  What is a “state” variable used for? |  |
| Objective #6  What data type is returned by buttons.was\_pressed(n)?  Write the code that will update the sound\_on to False if the button was pressed: |  |
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| Objective #7  What is the last value of sound\_on? |  |
| Objective #8  What is the first index of a list?  How do you access an item in a list? |  |
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| Objective #9  Inside a loop, how do you go to the next item in a list when a button is pressed?  What error do you encounter at the end of this objective? |  |
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| Objective #10  How do you prevent the error?  How can you prevent using a magic number in your if statement? |  |
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| **Post-Mission Reflection** | |
| What is something you learned about yourself during this mission? |  |
| This mission uses a “toggle” to go between two states. Give an example in your daily life that uses a toggle: |  |