|  |  |
| --- | --- |
| **Mission 12 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| While programming the missions, you have encountered mistakes, errors, and bugs. What are some strategies you use to fix problems and not get frustrated? |  |
| **Mission 12 Checks** | |
| Objective #1  What does an accelerometer measure?  What are the possible values it can return?  How many values does it return? |  |
|  |
|  |
| Objective #2  What are the principal axes used for navigation?  To convert data to an angle, what module do you need to import, and what function will you use from it? | X =  Y =  Z = |
|  |
| Objective #3  In the code, what constants are used instead of BTN-0 and BTN-1.  How did you find driving the CodeBot with two buttons? Was it easy or hard? |  |
|  |
| Objective #4  How do you visually represent the pitch data?  Give an example of a cascaded assignment: |  |
|  |
| Objective #5  When is an escape sequence used?  What is the escape sequence for “degrees”? |  |
|  |
| Objective #6  What changes to the get\_pitch() function did you make to also get the roll? |  |
| Objective #7  What changes to the drive\_bot() function did you make so the CodeBot is autonomous? |  |
| Objective #8  Describe the crash algorithm: |  |
| **Post-Mission Reflection** | |
| Many electronic devices have an accelerometer, like your cell phone. Name another device that might have an accelerometer, and how does it use the data? |  |
| How did you exhibit a growth mindset during this mission? |  |