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| **Mission 7 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| This mission will use sensors to detect a line, and then use the data to control the CodeBot. Other than self-driving cars, what real-world applications use some kind of object detection sensors? How does the data control a device? |  |
| **Mission 7 Checks** | |
| Objective #1  Explain how the line sensor works:  What value is returned by the line sensor? |  |
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| Objective #2  What is the code to read a line sensor? |  |
| Objective #3  Given an example of a chaining comparison:  What is the purpose of **break**? |  |
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| Objective #4  Where in the program do you define constants?  What does abs() do? |  |
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| Objective #5  What are two things you can do to improve the program? |  |
| Objective #6  What is a matrix?  What does a return statement do? |  |
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| **Post-Mission Reflection** | |
| What is something you enjoyed about this mission? |  |
| This mission uses a matrix to organize data. What real-life application can you think of that might use a matrix? |  |