Module 2: Questions

1. What is the farther distance the JetBot sonar module can measure?
2. Tablets and cellphones can detect whether they are being used in a portrait or landscape orientation. What sensor is used to detect this?
3. What does a gyroscope measure?
4. The JetBot encoders can detect 3200 ticks per revolution. If a wheel has moved 1000 ticks forward and the JetBot has 6" wheels. How many inches has the robot moved forward?
5. Explain why the motors cannot be directly connected to the Jetson TK1.
6. How do you read the encoder values?
7. Describe the reason for the 6-pin connector on the JetBot motors.
8. Describe the reason for the 4-pin connector on the sonar module.
9. You would like to measure how bumpy or smooth the ground is that the JetBot is running on. What sensor would be best suited for this?
10. What is gyroscope drift?