Day 8 CS570

Project Work Day/Reviewing for Test

LineFollower Project

Please continue to work with your partner on the LineFollower project.

Test Topics for next week

Here are a list of topics to have understanding about for next weeks test.

- What is the `wpilib` library, why do we use it.
- What are the main methods of the TimedRobot class
- What is Object Oriented Programming
  - What is abstraction
  - What is encapsulation
  - What is polymorphism
  - What is inheritance
  - How are these ideas used in the process of programming an FRC Robot
- Python specifics
  - How are classes made in Python
  - How can/do you use classes in Python
  - How do you make a function return a value in python
  - What is and how do you use `self`
  - What is and how do you use `__init__`
  - What is and how do you use `__str__`
  - How are classes connected inside a python project using `import`
  - How do you get a class to run using `if __name__=="__main__":`
- Ability to find and correct errors in code
- Familiarity with the classes and methods in the LineFollower Project
- Ability to create a class . . .
  - that does a particular task,
  - takes in particular values
  - works with another class
- Git and Github
  - What is the difference between git and GitHub
  - What is a commit
  - What is a branch
  - What is a Pull Request
  - What is good practice for using git and GitHub on a group project