Project Requirements:

There are five requirements to complete for the Bot World project.

**#1 – Get the prize. (10 points)**

This is a requirement that is specifically designed to get everyone started with Bot World. For this challenge, the arena will have no interior blocks. One Prize (worth 500 points) will be placed in the maze. You need to create a Bot that will get the Prize 100% of the time. <Press F1 to switch to the special mode for this requirement>

**#2 – Score Points Individually. (40 points)**

For this challenge, the arena will be set up as described in the rules. Your Bot’s average score over 100 rounds will be used to determine the points you earn towards your grade. To get all 40 points you must average 2700 points.

**#3 – Write five useful methods. (20 points)**

Your Bot’s class must contain at least five new methods that are used within you code. At least one of these methods must be specifically for competition against other Bots, not just for individual scoring.

**#4 – Keep a thought journal. (20 points)**

Throughout this project you will be expected to keep a journal of your thoughts. This can be in paragraph form, a bunch of bullet points, or a mix. Include all of your thoughts about your designs and process. Explain why a certain technique is beneficial and how the idea came about (also document ideas that did not work out. There will be plenty of these too.) Detailed explanations of the thought process, not only the final product. You must make at least three entries on different days each week.

**#5 – Use correct coding style. (10 points)**

Comment your code with Javadoc style comments on each method. Consistently use correct style (Capitalization, no code sprawl, descriptive identifiers)

**#6 – Compete against other Bots (Extra Credit)**

All of your successes in competitions against other Bots will earn you extra credit! None of your official score is based on how well you do in competitions.