## Laboratory Activity – Lab 3

### CS 365 Artificial Intelligence

# Answer sheet

1. Try to identify differences in strategy between Burke’s bot and Buckland’s.

Burke instantiates his bot with consistent priorities in order to preform better.

1. Record the winner and scores.

Buckland-401: 2-2, 8.42, 0.03

Buckland-402: 2-2, 8.47, 0.00

Burke-403: 1-1, 7.48, 0.59

Winner Burke

1. Identify the difference in the code for Buckland and Burke.   
   Start with RBGoal\_Think which is a subclass of Goal\_Think, and is not present in the Buckland code.
   1. What is happening in RBGoal\_Think.?

All of the actions to consider are evaluated. The best option is chosen at a higher level of abstraction

* 1. Do you think the modifications are reasonable?

The changes are reasonable. We replace random values with more prioritized options.

* 1. What changes in the bot’s behavior do they cause compared with Buckland’s bots?

More consistent, predictable behavior

* 1. Did they pay off in the game you just watched?

Yes.

1. What other changes did Burke introduce in his code? Identify at least three and describe the effect.   
   Hint: Burke put his name into files with significant changes.