Homework 3: Multi-Agent Search

Please keep the title of each section and delete examples.

Part I. Implementation (5%):

• Please screenshot your code snippets of Part 1 ~ Part 4, and explain your implementation. For example,

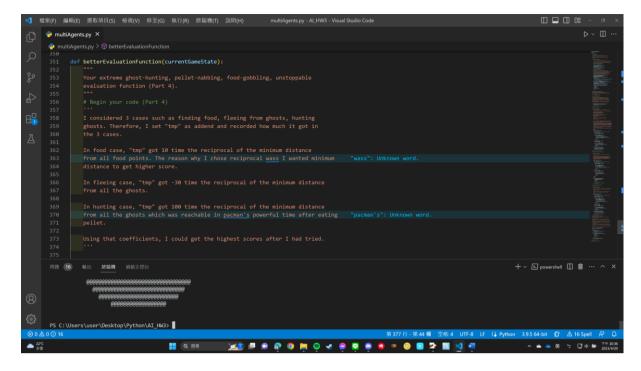
Part 1:

Part 2:

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Part 3:

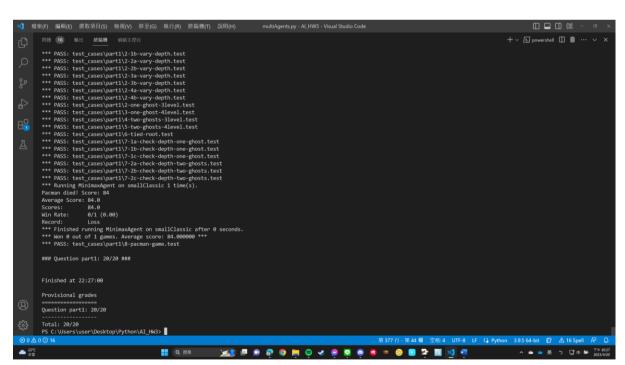
Part 4:



Part II. Results & Analysis (5%):

• Please screenshot the results. For instance, the result of the autograder and any observation of your evaluation function.

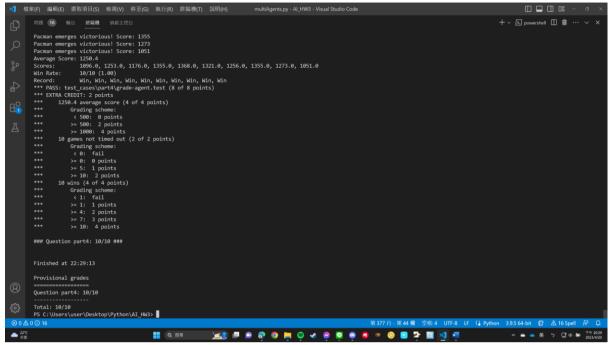
Part 1:



Part 2:

Part 3:

Part 4:



In Part 4, I had tried plenty of coefficients. The best was 10 for eatting food, -30 for fleeing, 100 for huntin g ghosts. If the coefficients were 10 times as big as those, python would work very slowly and pacman wou ld die, which I thought it was too big and overflow. If the coefficients were 10 times as small as those, sinc e I always added a very little amount to score when pacman finding food, thus that would be small enough to be affected. And I thought eatting ghost was important the most to avoid death, fleeing from ghost was t he second, and the last was finding food.

