**PFAI: Assignment 2**

1. Write down the result of your subjective comparison between minimax and minimax with alfa-beta pruning. Note, if you have time, you can actually play the two versions against each other, for a better comparison

After implementing alfa-beta pruning, we are seeing an increase in the AI performance because the algorithm is starting to prune the nodes with respect to defined alfa-beta values so the time complexity and performance of the algorithm is improved.

1. Write down your thoughts after playing against the AI with the eval function

After implementing Eval function, AI started to focus on centre chips more because we have given higher weights on the centre chips and it became harder to win against AI.

1. Write down your thoughts after playing against the MCTS AI

The MCTS is playing way worse than the minimax with alfa-beta pruning.

1. Prolog full answer:

house 1 house 2 house 3 house 4 house 5

1-yellow 2-blue 3-red 4-green 5-white

1-water 2-tea 3-milk 4-coffee 5-beer

1-cats 2-horse 3-birds 4-zebra 5-dog

1-dunhill 2-blend 3-pallmall 4-prince 5-bluemaster

1-norwegian 2-dane 3-english 4-german 5-swede