**CS1110 AI and ML Assignment 1 Due: Tuesday Sep 06, 9 am**

**Marks 10 / Weightage 5%**

**Q1.** Write a note on the contributions of Alan Turing to Computer Science and AI.

**Q2.** Show clearly the next best move for O, given the initial state as

ObXbbbbbb (written in row major order).

Use Min max algorithm and alpha pruning if required.

**Q3.** Look up the net to find how to fill a 4x4 magic square.

**Q4.** Define clearly the Traveling Salesperson problem and analyze it along the 6 dimensions discussed in class.

**Q5.** Show the next best 3 moves in the given Blocks World problem, when the initial state is

(AEC)(BD) and the goal state is (BDE)(AC)

Use a local or global heuristic, whichever is better.