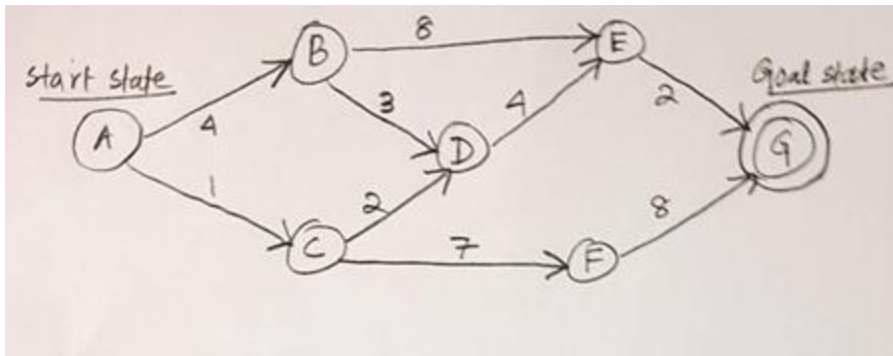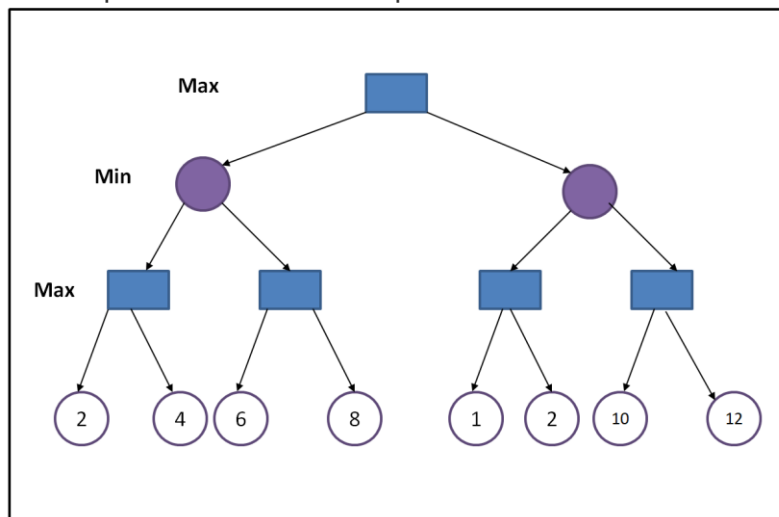1. What is "Uniform Cost Search"? Solve below path finding problem using Uniform Cost Search.

2. Explain the PEAS with reference to an Automated Taxi Driver agent.
3. Make use of ALPHA-BETA PRUNING apprach to indicate which branches can be pruned in the below problem.

4. Solve the below mentioned 2-Ply game problem (fill up the blank nodes) using MINIMAX algorithm.