Computer Science and Engineering Department
Artificial Intelligence (UCS-521)
Lab Assignment-4

Q1. Solve the following blocks world problem using Depth First Search.

```
              ___                                        ___
             | C |                                      | C |
   ___       | B |                                      | B |
  | A |      | B |                                      | A |
```

Q2. Solve the following blocks world problem using Breadth First Search. Compare the results with the question 1.

```
              ___                                        ___
             | C |                                      | C |
   ___       | B |                                      | B |
  | A |      | B |                                      | A |
```

Q3. Write a python program to solve the following blocks world problem using Depth Limited Search (D=1). Check if it is complete or incomplete for depth = 1.

```
              ___                                        ___
             | C |                                      | C |
   ___       | A |                                      | B |
  | B |      | A |                                      | A |
```

Q4. Find the depth at which the goal is achieved using Iterative Deepening for the following problem

```
              ___                                        ___
             | C |                                      | C |
   ___       | B |                                      | B |
  | A |      | B |                                      | A |
```

Q5. Solve this given problem using Uniform Cost search.