

Faculty of Computer Science, IBA, Karachi  
CSE307 –Artificial Intelligence (Spring'2011)

*Assignment # 1*

*Submission Date: 18<sup>th</sup> Mar' 2011*

Implement the following search techniques to assist a traveler in reaching his/her destination.

- breadth-first search
- depth-first search
- A\* search

Following information is available to your program:

- List of nodes
- The road network specifying the nodes that are connected to each other with their respective distances
- Aerial distance of every two nodes

It is your choice to hard-code this information in your program or read it from an external file but your program logic **MUST NOT** be dependent on a particular dataset.

Given a current and a destination node, you will be required to identify the shortest path between two nodes.