Implementation:

The main method in pc74_proj2.c first calls readConfigFile() to read the topology file and to populate the local data structures. Following this the run command is called which handles all operations.

Run(): here we first create a socket and set the F Din the select() routine, we also set a timer of 5 seconds here(can be changed in myfunctions.h) to check if we are supposed to send any update or if any connection of neighbor has terminated.

When select call returns if some data comes over UDP, we deserialize the same and update our routing table accordingly.

When select call returns due to stdin data, we call the handleCMDs() method to process the user query.

For periodic updates, we serialise the distance vector table and share the same with the neighbours. This part is present in the updateNeighbours() method in "myFunctions.c" file on the line 224.

Serialization is done as follows:
sprintf(buff+strlen(buff),"%d|%d|",i+1,Dv[i]);

This is the UDP string that is sent over to the neighbours to help them update their routing tables.