Output

Text in BLACK is console output and text in **RED** is console input.

Distributed Hash Table (Peer):

Run command: make run

Output:

********** PEER CLIENT STARTED **********

********** PEER SERVER STARTED **********

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **1**

Enter KEY (Max. 12 characters): **gautam**

Enter VALUE (Max. 500 characters): **mishra**

Time taken: 0.045 seconds

(gautam, mishra) added successfully to the Distributed Hash Table.

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.

Enter choice and press ENTER: **1**

Enter KEY (Max. 12 characters): **gautam**

Enter VALUE (Max. 500 characters): **john**

A VALUE with the specified KEY already exists in the Distributed Hash Table. Would you like to overwrite it? (Y/N): **Y**

Time taken: 0.045 seconds

(gautam, john) added successfully to the Distributed Hash Table.

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **2**

Enter the KEY which you want to search: **gautam**

VALUE = mishra for KEY = gautam

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **2**

Enter the KEY which you want to search: **iit**

VALUE not found for the given KEY in the Distributed Hash Table.

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **3**

Enter the KEY which you want to search: **gautam**

(KEY, VALUE) pair was deleted successfully from the Distributed Hash Table.

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **4**

LOG

==========

10-12-2015 03:04:48 => Connected with /192.168.206.128.
10-12-2015 03:04:48 => Serving PUT(gautam,mishra) request of 192.168.206.128.
10-12-2015 03:04:48 => PUT(gautam,mishra) for 192.168.206.128 completed successfully.

10-12-2015 03:04:57 => Connected with /192.168.206.128.
10-12-2015 03:04:57 => Serving PUT(gautam,john) request of 192.168.206.128.
10-12-2015 03:04:57 => PUT(gautam,john) for 192.168.206.128 failed. KEY already exist.

10-12-2015 03:04:59 => Connected with /192.168.206.128.
10-12-2015 03:04:59 => Serving PUT(gautam,john) request of 192.168.206.128.
10-12-2015 03:04:59 => PUT(gautam,john) for 192.168.206.128 completed successfully.

10-12-2015 03:05:05 => Connected with /192.168.206.128.
10-12-2015 03:05:05 => Serving GET(gautam) request of 192.168.206.128.
10-12-2015 03:05:05 => GET(gautam) = john for 192.168.206.128 completed successfully.

==========

What do you want to do?
1.Add a (key,value) pair.
2.Search for a key.
3.Delete a (key,value) pair.
4.Print log of this peer.
5.Exit.
Enter choice and press ENTER: **5**

Exiting will delete all (KEY, VALUE) pairs stored on this node and will no longer be accessible by other nodes in this network. Are you sure you want to exit? (Y/N)?: **Y**

Thanks for using this system.