

OUTPUT :

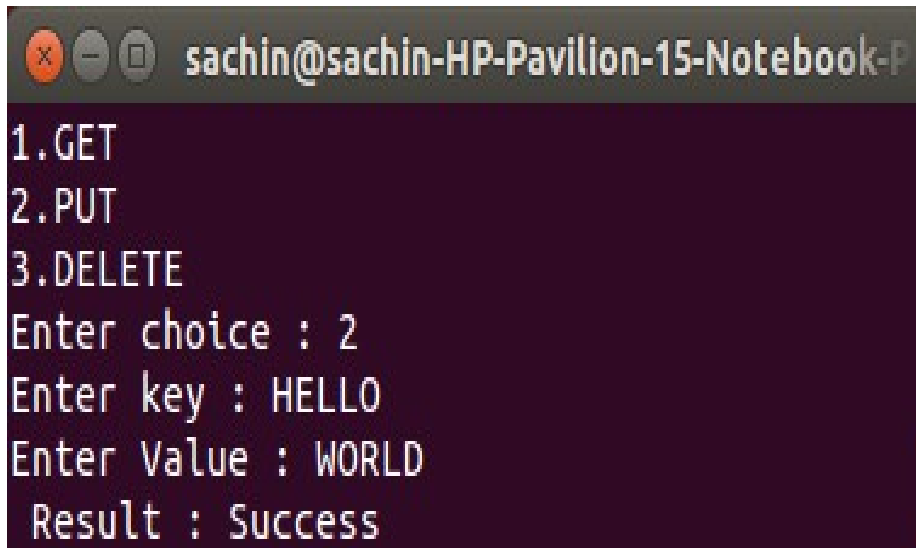
1. Total 8 Server connected Successfully.
After that it shows following options,
 1. GET
 2. PUT
 3. DELETEEnter choice :

```
sachin@sachin-HP-Pavilion-15-Notebook-PC:~/n2_MainCode/A2_1/dist$ [jar] Building jar: /home/sachin/D
n2_MainCode/A2_1/dist/A2_1-20151012.jar
main:
BUILD SUCCESSFUL
Total time: 1 second
sachin@sachin-HP-Pavilion-15-Notebook-PC:~/n2_MainCode/A2_1$ java -jar dist/A2_
Connected to Server 1
Connected to Server 2
Connected to Server 3
Connected to Server 4
Connected to Server 5
Connected to Server 6
Connected to Server 7
Connected to Server 8
1.GET
2.PUT
3.DELETE
Enter choice : █
```

2. Search for KEY which is not present in HASHTABLE.
KEY 'hello' is not present in HASHTABLE. So it throws **NotFound** error.

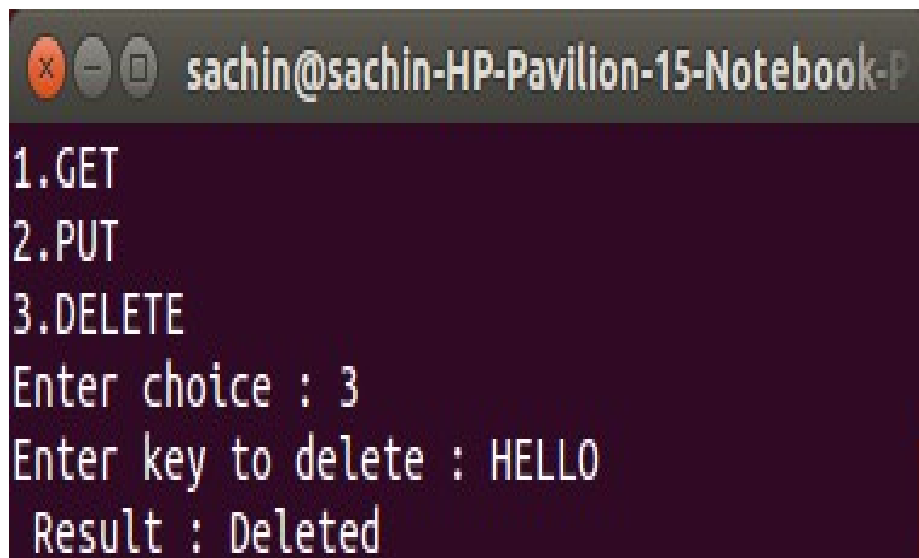
```
sachin@sachin-HP-Pavilion-15-Notebook-PC:~/n2_MainCode/A2_1/dist$ Total time: 1 second
sachin@sachin-HP-Pavilion-15-Notebook-PC:~/n2_MainCode/A2_1$ java -jar dist/A2_1-
Connected to Server 1
Connected to Server 2
Connected to Server 3
Connected to Server 4
Connected to Server 5
Connected to Server 6
Connected to Server 7
Connected to Server 8
1.GET
2.PUT
3.DELETE
Enter choice : 1
Enter key : hello
Result : NotFound
```

3. Put (KEY,VALUE) pair in HASHTABLE.
Here KEY is 'HELLO' and VALUE is 'WORLD'
For successful insertion, it shows message as 'Success'.

A terminal window with a dark purple background and white text. The title bar at the top shows a close button, a minimize button, and a maximize button, followed by the text 'sachin@sachin-HP-Pavilion-15-Notebook-P'. The terminal content shows a menu with three options: '1.GET', '2.PUT', and '3.DELETE'. Below the menu, the user has entered '2' for the choice. Then, the user has entered 'HELLO' for the key and 'WORLD' for the value. The final output is 'Result : Success'.

```
sachin@sachin-HP-Pavilion-15-Notebook-P
1.GET
2.PUT
3.DELETE
Enter choice : 2
Enter key : HELLO
Enter Value : WORLD
Result : Success
```

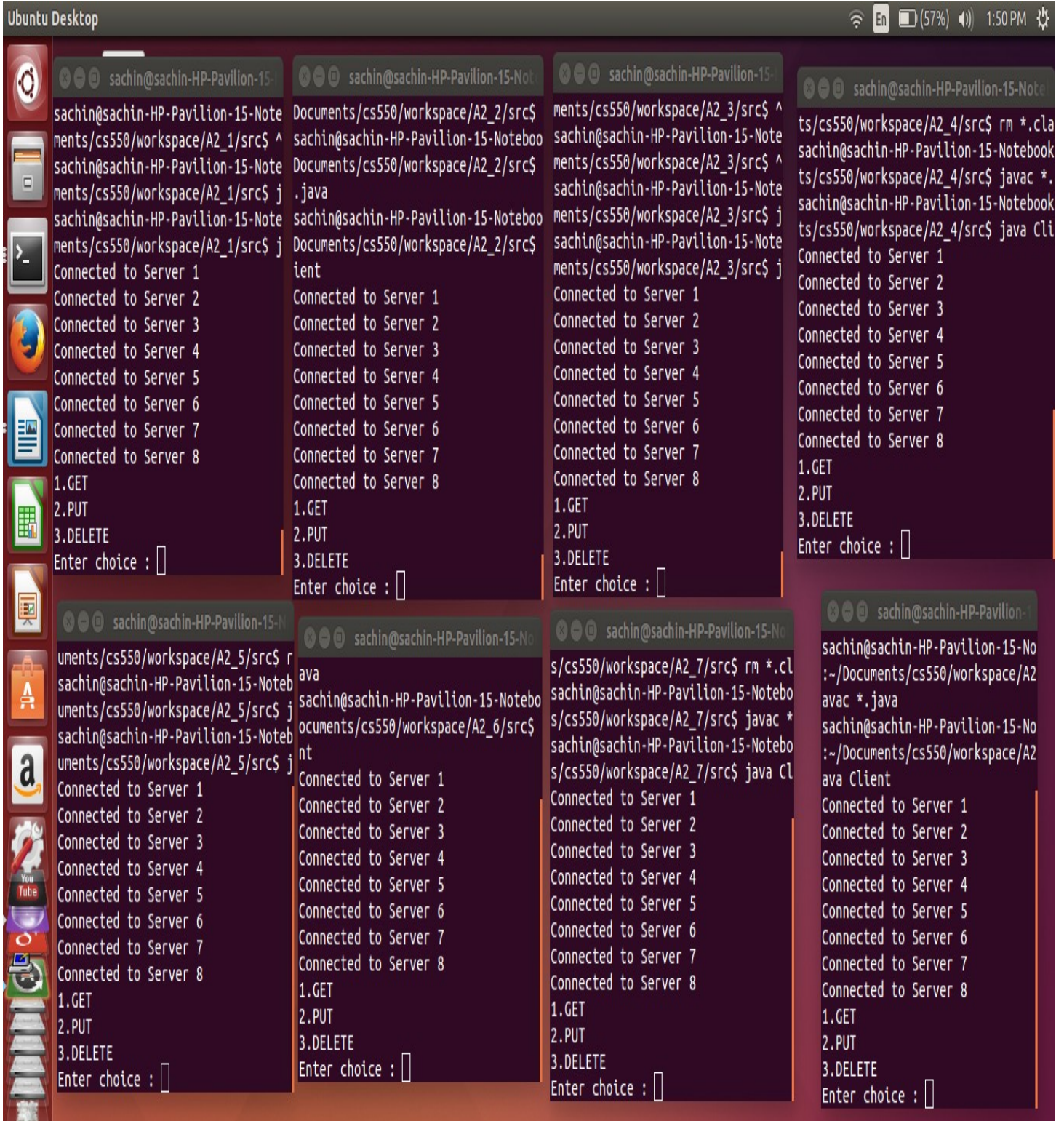
4. After Successful deletion of key, it shows 'Deleted' message.
Here Key = 'HELLO' is deleted.

A terminal window with a dark purple background and white text. The title bar at the top shows a close button, a minimize button, and a maximize button, followed by the text 'sachin@sachin-HP-Pavilion-15-Notebook-P'. The terminal content shows the same menu as the previous window: '1.GET', '2.PUT', and '3.DELETE'. Below the menu, the user has entered '3' for the choice. Then, the user has entered 'HELLO' for the key to delete. The final output is 'Result : Deleted'.

```
sachin@sachin-HP-Pavilion-15-Notebook-P
1.GET
2.PUT
3.DELETE
Enter choice : 3
Enter key to delete : HELLO
Result : Deleted
```

- The image shows an Ubuntu Desktop environment with eight terminal windows open in a 2x4 grid. The top-left terminal window displays a menu with options 1.GET, 2.PUT, and 3.DELETE. It prompts for a choice, which is 2, then for a key, which is 'city', and for a value, which is 'chicago'. The result is 'Success'. The other seven terminal windows show connection status for various servers (Server 3 through Server 8) and the same menu options. The desktop background is a dark purple Ubuntu logo. The top bar shows 'Ubuntu Desktop' and system status icons. The left sidebar contains application icons for Dash, Home, Dash to Dock, and various applications like Firefox, LibreOffice, and Amazon.

6. Screen-shot when connected to all 8 Peers successfully.



The screenshot shows an Ubuntu Desktop environment with eight terminal windows open. Each terminal window displays the following sequence of commands and outputs:

```
sachin@sachin-HP-Pavilion-15-Notebooks:~/Documents/cs550/workspace/A2_1/src$ java Client
Connected to Server 1
Connected to Server 2
Connected to Server 3
Connected to Server 4
Connected to Server 5
Connected to Server 6
Connected to Server 7
Connected to Server 8
1.GET
2.PUT
3.DELETE
Enter choice : 
```

The same sequence of commands and outputs is repeated in the other seven terminal windows, with the directory path changing to A2_2, A2_3, A2_4, A2_5, A2_6, A2_7, and A2_8 respectively. The desktop background is dark, and the terminal windows have a light background. The system tray in the top right corner shows the time as 1:50 PM and the battery level as 57%.