# Case 1: Register

```
🤶 🖪 🖇 🕑 (70%) 🜒) 1:47 PM 😃
         🔞 🖨 📵 abhijeet@abhijeet-Inspiron-5547: ~/workspace/Prog2_Kedari_Abhijeet/DHT
0
         jar:
               [mkdir] Created dir: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT/buil
         d/jar
         [jar] Building jar: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT/bui:
ld/jar/Peer.jar
                                                                                                                                              arch
                 [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                               r your choice:
                 [java] Below files got registered
                                                                                                                                              gister
arch
                 [java]
[java]
[java]
[java] Netherland.txt
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                              r your choice:
                [java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                           [java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
                                                                                                                                              gister
arch
it
                                                                                                                                                 your choice:
                 [java] Enter your choice:
                                                                                                                                                downloaded successfully !!!
```

As replication factor was 1. File got downloaded on one of 8 server that is server #5

```
🤶 🖪 🖁 (70%) 🜒) 1:47 PM 😃
0
                [mkdir] Created dir: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT/buil
         d/jar
         [jar] Building jar: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT/bui:
ld/jar/Peer.jar
                                                                                                                                                 gister
                                                                                                                                                 arch
        run:
                 [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                                 r your choice:
                  [java] Below files got registered
                                                                                                                                                gister
arch
                 [java] Below files got re
[java]
[java] Netherland.txt
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                                 r your choice:
                                                                                                                      s abhijeet@abhijeet-Inspiron-5547: ~/workspace/Prog2_Kedari_Abhijeet/DHT5
                                                                                                                      [javac] Compiling 5 source files to /home/abhijeet/workspace/Prog2_Kedari_Ab
hijeet/DHT5/build/classes
                                                                                                                    jar:
    [mkdir] Created dir: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT5/bui
ld/jar
    [jar] Building jar: /home/abhijeet/workspace/Prog2_Kedari_Abhijeet/DHT5/bu
ild/jar/Peer.jar
                 [java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
(A)
           🛿 🖨 📵 abhijeet@abhijeet-Inspiron-5547: ~/workspace/Prog2_Kedari_Abhijeet//run:
                                                                                                                              [java]
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
[java] File downloaded successfully !!!
                  [java]
                  [java] Menu:
[java] 1.Register
                  [java] 2.Search
[java] 3.Exit
[java] Enter your choice:
```

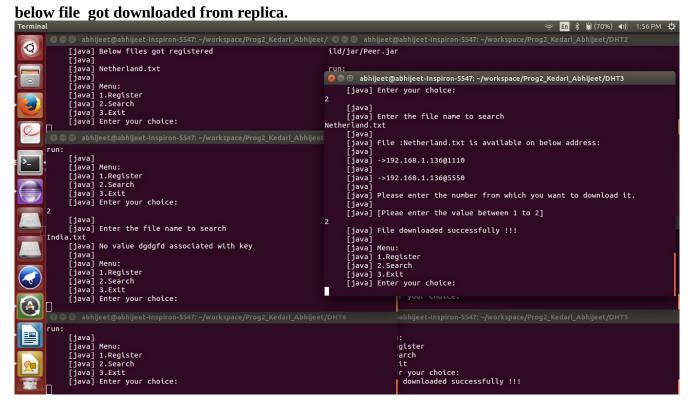
# Case 2: Search - Successful search

```
🤶 🖪 🖇 省 (70%) 🜒) 1:52 PM 😃
                            [java] Below files got registered
                                                                                                                                                                                😮 同 🏻 abhijeet@abhijeet-Inspiron-5547: ~/workspace/Prog2_Kedari_Abhijeet/DHT3
                          []ava] Below Files got re
[java]
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                                                                ild/jar/Peer.jar
                                                                                                                                                                                           [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                                                              [java]
[java] Enter the file name to search

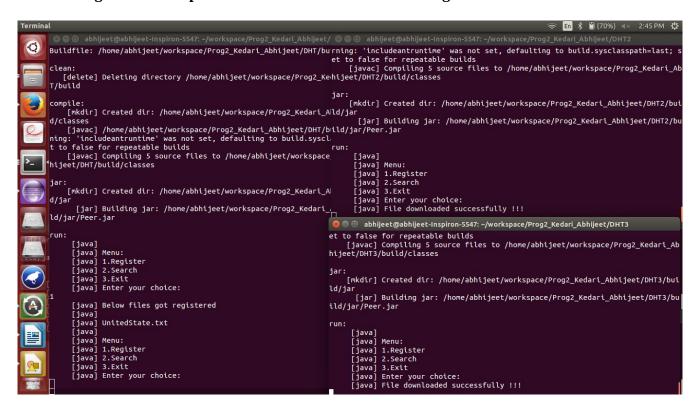
Netherland.txt
[java]
[java] File :Netherland.txt is available on below address:
[java]
[java] -192.168.1.136@1110
[java]
[java] ->192.168.1.136@5550
[java]
[java] Please enter the number from which you want to downl
             ld/jar/Peer.jar
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
                                                                                                                                                                                            [java] Please enter the number from which you want to download it.
[java]
[java] [Pleae enter the value between 1 to 2]
               run:
                          [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
                                                                                                                                                                                           []ava] 1.Register
[]ava] 2.Search
[]ava] 3.Exit
[]ava] Enter your choice:
                                                                                                                                                                                           [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
[java] File downloaded successfully !!!
                          [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
[java] Enter your choice:
```

# Unsuccessful search -

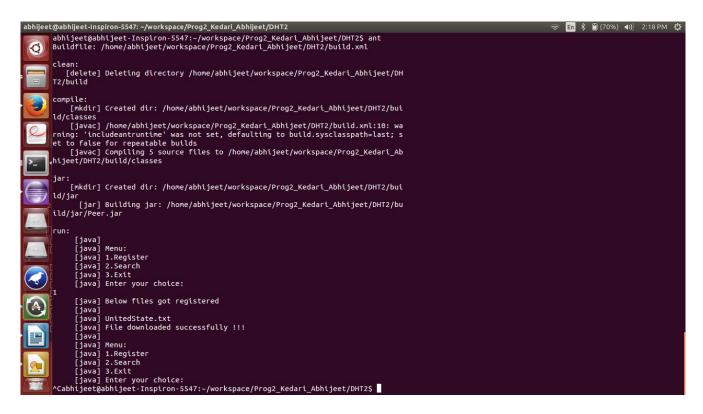
#### Case 3 - Download -



# Case 4 - Register with Replication factor = 2 because of that file got saved on DHT2 and DHT3

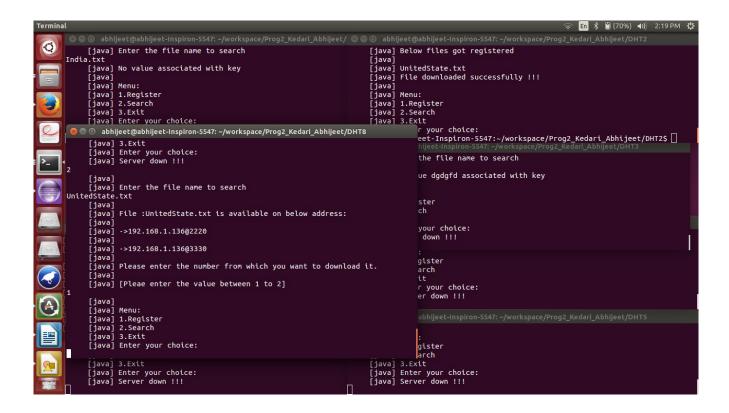


# Case 5- If we killed one of the server instance



Search and Tried to download file from server who is down -

- So here in above screen shot the main server is down who contain Hash Table, Still we are able to find the address of server containing file "UnitedState.txt".
- This is data resilience support.
- File does not get download successfully, if tired to download from server who is download. (see below screen shot)



- But you can get it successfully download from it's replica server (see below screen shot)

```
abhijeet@abhijeet-Inspiron-5547: ~/workspace/Prog2_Kedari_Abhijeet/DHT8
          UnitedState.txt
 0
                  [java]
[java] File :UnitedState.txt is available on below address:
                  [java]
[java]
[java]
[java]
[java]
[java]
                              ->192.168.1.136@2220
                              ->192.168.1.136@3330
                             Please enter the number from which you want to download it.
                  [java]
[java] [Pleae enter the value between 1 to 2]
                [java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
Finter you
                  [java] 3.Exit
[java] Enter your choice:
                  [java]
[java] Enter the file name to search
         UnitedState.txt
                   [java]
                  [java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
[java]
                             File :UnitedState.txt is available on below address:
                             Please enter the number from which you want to download it.
                  [java] File downloaded successfully !!!
[java]
[java] Menu:
[java] 1.Register
[java] 2.Search
[java] 3.Exit
                   [java] 2.Search
[java] 3.Exit
[java] Enter your choice:
```