

## **Manual Document for the code implementation**

### **For running the centralIndexserver.java**

```
PS C:\java programmes> javac CentralIndexingServer.java
PS C:\java programmes> java CentralIndexingServer
Central Indexing Server started on port 5000...
```

### **For running the P2PFileServer.java**

```
C:\java programmes>javac P2PFileServer.java
```

```
C:\java programmes>java P2PFileServer
Peer server is running on port 5001...
```

### **Sample Input and output**

#### **For running the PeerClient.java**

```
C:\peer2>javac PeerClient.java
```

```
C:\peer2>java PeerClient
```

```
C:\peer2>java PeerClient
```

```
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to
download a file, 'delete' to delete a file, or 'exit' to exit.
```

```
register
```

```
Enter your peer ID: peer2
```

```
Enter the file name to register: professor.txt
```

```
C:\peer2>java PeerClient
```

```
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to
download a file, 'delete' to delete a file, or 'exit' to exit.
```

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: professor.txt

File does not exist in the shared directory.

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: file3.txt

Register command sent: REGISTER peer2 localhost file3.txt

Enter your peer ID: peer2

Enter the file name to register: professor.txt

File does not exist in the shared directory.

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: file3.txt

Register command sent: REGISTER peer2 localhost file3.txt

Enter the file name to register: professor.txt

File does not exist in the shared directory.

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: file3.txt

Register command sent: REGISTER peer2 localhost file3.txt

File does not exist in the shared directory.

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: file3.txt

Register command sent: REGISTER peer2 localhost file3.txt

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

Enter the file name to register: file3.txt  
Register command sent: REGISTER peer2 localhost file3.txt  
register  
Enter your peer ID: peer2  
Enter the file name to register: file3.txt  
Register command sent: REGISTER peer2 localhost file3.txt  
Enter the file name to register: file3.txt  
Register command sent: REGISTER peer2 localhost file3.txt  
Register command sent: REGISTER peer2 localhost file3.txt  
Server response: Files have been registered successfully.  
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.  
register  
Enter your peer ID: peer2  
Enter the file name to register: file9.txt  
Register command sent: REGISTER peer2 localhost file9.txt  
Server response: Files have been registered successfully.  
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.  
register  
Enter your peer ID: peer2  
Enter the file name to register: Professor.txt  
Register command sent: REGISTER peer2 localhost Professor.txt  
Server response: Files have been registered successfully.  
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.  
delete  
Enter the file name to delete: file9.txt  
File deleted: file9.txt  
Enter your peer ID to deregister: peer2  
Server response: File has been deregistered.  
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

**You can choose the operation by giving the input in the command prompt like  
register, delete,search,download  
The above are the example for them**

Peer2 + v [Icons]

Microsoft Windows [Version 10.0.22631.4249]  
(c) Microsoft Corporation. All rights reserved.

```
C:\java programmes>cd ..
```

```
C:\>cd peer2
```

```
C:\peer2>javac PeerClient.java
```

```
C:\peer2>java PeerClient
```

```
C:\peer2>java PeerClient
```

Enter your peer ID: peer2

```
Enter the file name to register: professor.txt
```

```
C:\peer2>java PeerClient
```

Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.  
Choose an action: 'register' to register a file, 'search' to search for files, 'download' to download a file, 'delete' to delete a file, or 'exit' to exit.

register

Enter your peer ID: peer2

```
Enter the file name to register: professor.txt
```

File does not exist in the shared directory.

Enter your peer ID: peer2

```
Enter the file name to register: file3.txt
```

```
Register command sent: REGISTER peer2 localhost file3.txt
```

Enter your peer ID: peer2

Enter the file name to register: professor.txt

File does not exist in the shared directory.

Enter your peer ID: peer2

```
Enter the file name to register: file3.txt
```

```
Register command sent: REGISTER peer2 localhost file3.txt
```