## **Assumptions and Execution**

I have done the project in windows from my laptop. The entire code and command follows the windows procedure.

1. Also, I have the root directory path copied to the query classes. It can be anywhere but the root directory path alone I am copying to all the query classes to access the directory anytime according to my code structure.

This is done for all the query classes – QueryDirStructure, QueryDirDepth, QueryFilename.

2. Also, I got error without generating those corresponding serial Version id. So, I took the corresponding version id which I got from the command prompt generating mismatch and changed the generated version id in the code to make it similar and serializable.

Below is the command and output obtained:

1. RMI

```
C:\Program Files\Java\jdk1.8.0_241\bin>start rmiregistry -J-Djava.rmi.server.useCodebaseOnly=false
```

2. Server

C:\Distributed\CW2\Coursework2-server>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CW2/queryserver.jar -Djava.rmi.server.useCodebaseOnly=false -Djava.security.policy=file:/C:/Distributed/CW2/Coursework2-server/policy.permission CO3090.coursework2.server.FileSystemServer
FileSystemSearch Engine bound

## 3. Client

```
C:\Distributed\CM2\Coursework2-client>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CM2/queryclient.ja
r -Djava.rmi.server.useCodebaseOnly=false -Djava.security.policy=file:/C:/Distributed/CW2/Coursework2-server/policy.perm
ission CO3090.coursework2.client.FileSystemQueryClient 10.25.131.60 "A//B" "File2"

Driectory Structure : B

Direcrory depth : 0

File : [C:\Distributed\CM2\DemoFolders\A\C\E\File2.txt]

C:\Distributed\CM2\Coursework2-client>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CM2/queryclient.ja
r -Djava.rmi.server.useCodebaseOnly=false -Djava.security.policy=file:/C:/Distributed/CW2/Coursework2-server/policy.perm
ission CO3090.coursework2.client.FileSystemQueryClient 10.25.131.60 "A//" "File2"

Driectory Structure : AB,C,{D,E,{F,}}

Direcrory depth : 4

File : [C:\Distributed\CW2\Coursework2-client>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CW2/queryclient.ja
r -Djava.rmi.server.useCodebaseOnly=false -Djava.security.policy=file:/C:/Distributed/CW2/Coursework2-server/policy.perm
ission CO3090.coursework2.client.FileSystemQueryClient 10.25.131.60 "A" "File2"

Driectory Structure : AB,C,{D,E,{F,}}

Direcrory depth : 4

File : [C:\Distributed\CW2\DemoFolders\A\C\E\File2.txt]

C:\Distributed\CW2\Coursework2-client>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CW2/queryclient.ja
r -Djava.rmi.server.useCodebaseOnly=false -Djava.security.policy=file:/C:/Distributed/CW2/Coursework2-server/policy.perm
ission CO3090.coursework2-client>java -cp ./bin/ -Djava.rmi.server.codebase=file:/C:/Distributed/CW2/Coursework2-server/policy.perm
ission CO3090.coursework2.client.FileSystemQueryClient 10.25.131.60 "A//C" "File2"

Driectory Structure : CD,E,{F,}

Driectory Structure : CD,E,{F
```