## Assignment 3:

Instructions to run the program:

On 4 separate Terminals, execute the below -

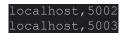
- > python myleprocess.py config.txt log.txt
- > python myleprocess.py config1.txt log1.txt
- > python myleprocess.py config2.txt log2.txt
- > python myleprocess.py config3.txt log3.txt

# Config File:

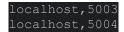
1) config.txt



2) config1.txt



3) config2.txt



4) config3.txt



## Terminal Output 1:

Config file name: config.txt

Log file name: log.txt

Host: localhost Port: 5001

Peer Host: localhost Peer Port: 5002 Starting server ...

Server started on localhost:5001, waiting for connection... My UUID 6bb832f7-b588-4367-a9ce-84b093f5457d

Connected to Peer server- localhost: 5002

Connection from ('127.0.0.1', 52126)

----Leader ID elected---- dbd5a110-c7e9-436f-aec0-af22bbe6daa2

### Terminal Output 2:

Config file name: config1.txt

Log file name: log1.txt

Host: localhost Port: 5002

Peer Host: localhost Peer Port: 5003 Starting server ...

Server started on localhost:5002, waiting for connection...

Connection from ('127.0.0.1', 52121)

My UUID cd46de25-75be-461b-bab1-bff756b34be7

Connected to Peer server- localhost: 5003

----Leader ID elected---- dbd5a110-c7e9-436f-aec0-af22bbe6daa2

### Terminal Output 3:

Config file name: config2.txt Log file name: log2.txt

Host: localhost Port: 5003

Peer Host: localhost Peer Port: 5004 Starting server ...

Server started on localhost:5003, waiting for connection...

Connection from ('127.0.0.1', 52122)

My UUID 328d6f6b-79ce-466f-a7b0-c9b76e6fe5d1

Connected to Peer server- localhost: 5004

----Leader ID elected---- dbd5a110-c7e9-436f-aec0-af22bbe6daa2

## Terminal Output 4:

Config file name: config3.txt

Log file name: log3.txt

Host: localhost Port: 5004

Peer Host: localhost Peer Port: 5001 Starting server ...

Server started on localhost:5004, waiting for connection...

Connection from ('127.0.0.1', 52125)

My UUID dbd5a110-c7e9-436f-aec0-af22bbe6daa2

Connected to Peer server- localhost: 5001

----Leader ID elected---- dbd5a110-c7e9-436f-aec0-af22bbe6daa2

## Log Output:

1) log.txt

```
Sent: (MY UUID) uuid=6bb832f7-b588-4367-a9ce-84b093f5457d, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0, greater, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0, greater, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1, greater, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1
Leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
```

### 2) log1.txt

```
Sent: (MY UUID) uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0
Received: uuid=6bb832f7-b588-4367-a9ce-84b093f5457d, flag=0, less, state=0
Sent: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0, greater, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1
Leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
```

## 3) log2.txt

```
Sent: (MY UUID) uuid=328d6f6b-79ce-466f-a7b0-c9b76e6fe5d1, flag=0
Received: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0, greater, state=0
Sent: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0
Received: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0
Sent: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0, greater, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1
Leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
```

### 4) log4.txt

```
Sent: (MY UUID) uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=328d6f6b-79ce-466f-a7b0-c9b76e6fe5d1, flag=0, less, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0
Received: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0, less, state=0
Received and Ignored: uuid=cd46de25-75be-461b-bab1-bff756b34be7, flag=0, less, state=0
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=0, same, state=0
Sent: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1
Received: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1, same, state=1self.state=1, leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
Received and Ignored: uuid=dbd5a110-c7e9-436f-aec0-af22bbe6daa2, flag=1, same, state=1, leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
Leader is decided to dbd5a110-c7e9-436f-aec0-af22bbe6daa2
```