su@SUs-MacBook-Pro project % pipenv run python server\_consumer.py 4

su@SUs-MacBook-Pro project % pipenv run python client\_producer.py 4

Result:

su@SUs-MacBook-Pro project % pipenv run python client\_producer.py 4

num\_server=4

Servers: ['tcp://127.0.0.1:2000', 'tcp://127.0.0.1:2001', 'tcp://127.0.0.1:2002', 'tcp://127.0.0.1:2003']

Starting...

Creating a server connection to tcp://127.0.0.1:2000...

Creating a server connection to tcp://127.0.0.1:2001...

Creating a server connection to tcp://127.0.0.1:2002...

Creating a server connection to tcp://127.0.0.1:2003...

Sending data:{'key': 'key-0', 'value': 'value-0'}

Sending data:{'key': 'key-1', 'value': 'value-1'}

Sending data:{'key': 'key-2', 'value': 'value-2'}

Sending data:{'key': 'key-3', 'value': 'value-3'}

Sending data:{'key': 'key-4', 'value': 'value-4'}

Sending data:{'key': 'key-5', 'value': 'value-5'}

Sending data:{'key': 'key-6', 'value': 'value-6'}

Sending data:{'key': 'key-7', 'value': 'value-7'}

Sending data:{'key': 'key-8', 'value': 'value-8'}

Sending data:{'key': 'key-9', 'value': 'value-9'}

Done

Starting...

Creating a server connection to tcp://127.0.0.1:2000...

Creating a server connection to tcp://127.0.0.1:2001...

Creating a server connection to tcp://127.0.0.1:2002...

Creating a server connection to tcp://127.0.0.1:2003...

Sending data:{'key': 'key-0', 'value': 'value-0'}

Sending data:{'key': 'key-1', 'value': 'value-1'}

Sending data:{'key': 'key-2', 'value': 'value-2'}

Sending data:{'key': 'key-3', 'value': 'value-3'}

Sending data:{'key': 'key-4', 'value': 'value-4'}

Sending data:{'key': 'key-5', 'value': 'value-5'}

Sending data:{'key': 'key-6', 'value': 'value-6'}

Sending data:{'key': 'key-7', 'value': 'value-7'}

Sending data:{'key': 'key-8', 'value': 'value-8'}

Sending data:{'key': 'key-9', 'value': 'value-9'}

Done

Starting...

Creating a server connection to tcp://127.0.0.1:2000...

Creating a server connection to tcp://127.0.0.1:2001...

Creating a server connection to tcp://127.0.0.1:2002...

Creating a server connection to tcp://127.0.0.1:2003...

Sending data:{'key': 'key-0', 'value': 'value-0'}

Sending data:{'key': 'key-1', 'value': 'value-1'}

Sending data:{'key': 'key-2', 'value': 'value-2'}

Sending data:{'key': 'key-3', 'value': 'value-3'}

Sending data:{'key': 'key-4', 'value': 'value-4'}

Sending data:{'key': 'key-5', 'value': 'value-5'}

Sending data:{'key': 'key-6', 'value': 'value-6'}

Sending data:{'key': 'key-7', 'value': 'value-7'}

Sending data:{'key': 'key-8', 'value': 'value-8'}

Sending data:{'key': 'key-9', 'value': 'value-9'}

Done

su@SUs-MacBook-Pro project % pipenv run python server\_consumer.py 4

num\_server=4

Starting a server at:2000...

Starting a server at:2001...

Starting a server at:2002...

Starting a server at:2003...

Server\_port=2001:key=key-5,value=value-5

Server\_port=2002:key=key-6,value=value-6

Server\_port=2003:key=key-7,value=value-7

Server\_port=2000:key=key-8,value=value-8

Server\_port=2000:key=key-0,value=value-0

Server\_port=2002:key=key-1,value=value-1

Server\_port=2000:key=key-2,value=value-2

Server\_port=2003:key=key-4,value=value-4

Server\_port=2001:key=key-6,value=value-6

Server\_port=2000:key=key-7,value=value-7

Server\_port=2003:key=key-8,value=value-8

Server\_port=2002:key=key-0,value=value-0

Server\_port=2001:key=key-1,value=value-1

Server\_port=2003:key=key-3,value=value-3

Server\_port=2001:key=key-4,value=value-4

Server\_port=2002:key=key-5,value=value-5

Server\_port=2000:key=key-9,value=value-9