

```
Windows PowerShell
PS C:\Apps\netcat-1.11>
```

Semester 3/Spark/Assignment/ x Streaming - Jupyter Notebook x +

localhost:8888/notebooks/Semester%203/Spark/Assignment/Streaming.ipynb

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jupyter Streaming (unsaved changes) Logout

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```
In [1]: import sys
        from pyspark import SparkContext
        from pyspark.streaming import StreamingContext
        import os
        from datetime import datetime
        now = datetime.now()
        import time
        ts = time.time()

In [2]: if __name__ == "__main__":
        hostname = "localhost"
        port = int(9999)
        sc = SparkContext(appName="PythonStreamingNetworkWordCount")
        ssc = StreamingContext(sc, 10)

In [ ]: lines = ssc.socketTextStream(hostname, port)
        counts = lines.flatMap(lambda line: line.split(" "))\
                        .map(lambda word: (word, 1))\
                        .reduceByKey(lambda a, b: a+b)
        counts.pprint()
        ssc.start()
        ssc.awaitTermination()
```

```
Windows PowerShell
PS C:\Apps\netcat-1.11> ./nc -l -p 9999
```

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Time: 2022-02-08 15:57:50
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In [ ]:
```

```
Windows PowerShell
PS C:\Apps\netcat-1.11> ./nc -l -p 9999
Hello! How are you
```

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Time: 2022-02-08 15:57:50
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Time: 2022-02-08 15:58:00
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In [ ]:
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Hello! How are you
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Time: 2022-02-08 15:57:50
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Time: 2022-02-08 15:58:00
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-----
Time: 2022-02-08 15:58:10
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-----
Time: 2022-02-08 15:58:20
-----
('are', 1)
('you', 1)
('Hello!', 1)
('How', 1)
```

```
In [ ]:
```

```
Windows PowerShell
PS C:\Apps\netcat-1.11> ./nc -l -p 9999
Hello! How are you
```

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https://malayalam.indiatyping.com

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Time: 2022-02-08 15:57:50
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-----
Time: 2022-02-08 15:58:00
-----

-----
Time: 2022-02-08 15:58:10
-----

-----
Time: 2022-02-08 15:58:20
-----
('are', 1)
('you', 1)
('Hello!', 1)
('How', 1)
-----

Time: 2022-02-08 15:58:30
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```

In []: