

Common assignment: Demonstrate the spark streaming

- Sending from a terminal

- Receiving from spark streaming context a simple word count program

The image shows a Jupyter Notebook interface on the right and a Windows Command Prompt on the left. The Command Prompt is running a netcat listener on port 9999, receiving a stream of text: "HAPPY", "HAPPY BOY IS HAPPY", and "HAPPY SAD ANGRY HAPPY ANGRY HAPPY SAD HAPPY". The Jupyter Notebook, titled "Commom_Assignment", displays the output of a Spark Streaming word count program. The output shows word counts for "HAPPY", "BOY", "IS", "SAD", and "ANGRY" over time.

Command Prompt Output:

```
Microsoft Windows [Version 10.0.22000.376]
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C:\Users\ranji>nc -l -p 9999
HAPPY
HAPPY BOY IS HAPPY
HAPPY SAD ANGRY HAPPY ANGRY HAPPY SAD HAPPY
C:\Users\ranji>
```

Jupyter Notebook Output:

```
Time: 2022-01-09 21:55:40
('', 1)
('HAPPY', 1)

Time: 2022-01-09 21:55:50

Time: 2022-01-09 21:56:00
('BOY', 1)
('IS', 1)
('HAPPY', 2)

Time: 2022-01-09 21:56:10

Time: 2022-01-09 21:56:20

Time: 2022-01-09 21:56:30
('ANGRY', 2)
('HAPPY', 4)
('SAD', 2)
```