

```
from mrjob.job import MRJob

class MRWordCount(MRJob):
    def mapper(self, _, line):
        for word in line.split():
            yield word.lower(), 1

    def reducer(self, word, counts):
        yield word, sum(counts)

if __name__ == '__main__':
    MRWordCount.run()
```

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "hadoop@mmcoe-System-Product-Name: ~". The terminal content shows the execution of a Python script named "app.py" on a local machine. The script reads from "input1.txt" and writes to "output1.txt". It handles configuration auto-configuration and creates temporary directories for the job. The terminal also shows the creation of another Python script "app2.py", its execution on "input2.txt" to produce "output2.txt", and its configuration auto-configuration.

```
hadoop@mmcoe-System-Product-Name:~$ python3 app.py input1.txt > output1.txt
No configs found; falling back on auto-configuration
No configs specified for inline runner
Creating temp directory /tmp/app.hadoop.20250409.043151.730100
Running step 1 of 1...
job output is in /tmp/app.hadoop.20250409.043151.730100/output
Streaming final output from /tmp/app.hadoop.20250409.043151.730100/output...
Removing temp directory /tmp/app.hadoop.20250409.043151.730100...
hadoop@mmcoe-System-Product-Name:~$ gedit app2.py
hadoop@mmcoe-System-Product-Name:~$ gedit input2.txt
hadoop@mmcoe-System-Product-Name:~$ gedit output2.txt
hadoop@mmcoe-System-Product-Name:~$ python3 app2.py input2.txt > output2.txt
No configs found; falling back on auto-configuration
No configs specified for inline runner
Creating temp directory /tmp/app2.hadoop.20250409.045732.843935
Running step 1 of 1...
job output is in /tmp/app2.hadoop.20250409.045732.843935/output
Streaming final output from /tmp/app2.hadoop.20250409.045732.843935/output...
Removing temp directory /tmp/app2.hadoop.20250409.045732.843935...
hadoop@mmcoe-System-Product-Name:~$
```

Activities Text Editor Apr 9 10:30

input2.txt

Save

Open input2.txt output2.txt app2.py input5.txt output5.txt

```
1 Hello World!
2 Welcome to the world of simulation.
3 Hello Python
4 Hello DSBDA
5 Okay Bye
```

Plain Text Tab Width: 8 Ln 5, Col 9 INS

Activities Text Editor Apr 9 10:30

output2.txt

Save

Open output1.txt input2.txt output2.txt app2.py input5.txt output5.txt

```
1 "python"      1
2 "bye"         1
3 "world!"      1
4 "dsbda"       1
5 "the"         1
6 "welcome"     1
7 "hello"       3
8 "to"          1
9 "of"          1
10 "okay"        1
11 "world"       1
12 "simulation." 1
```

Plain Text Tab Width: 8 Ln 1, Col 1 INS