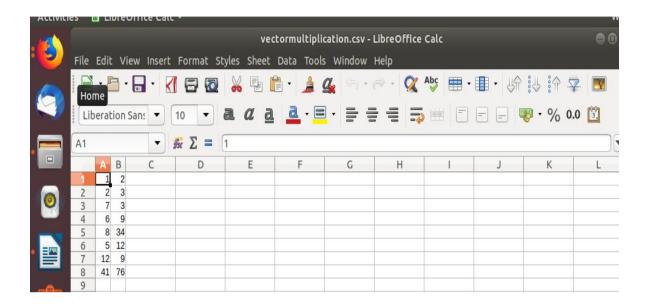
Assignment-5

vector multiplication

DATASET



Mapper code:

```
mapper.py

-/Documents/semester-3/Enabling technologies for data science/Assignments/vectors

##/usr/bin/python3
import sys
a=[]
for line in sys.stdin:
    a.append(line.strip().split(",")[0])
    b.append(line.strip().split(",")[1])
for i in range(len(a)):
    print(i,",",a[i])
for i in range(len(b)):
    print(i,",",b[i])

Python 3 ▼ Tab Width: 8 ▼ Ln 1, Col 1 ▼ INS
```

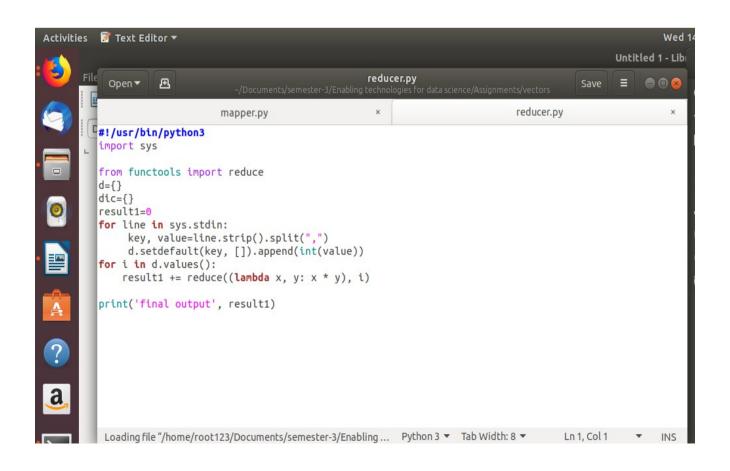
Mapper output:

```
root123@root123-Lenovo-ideapad-338-15IK8:~$ hadoop fs -cat /vec/vectormultiplication.csv | '/home/root123/Desktop/mapper.py'

0 , 1
1 , 2
2 , 7
3 , 6
4 , 8
5 , 5
6 , 12
7 , 41
0 , 2
1 , 3
2 , 3
2 , 3
3 , 9
4 , 34
5 , 12

6 , 9
7 , 76
```

Reducer code:



Reducer output:

7639
root123@root123-Lenovo-ideapad-330-15IKB:~\$ hadoop fs -cat /vec/vectormultiplication.csv | sort |'/home/root123/Desktop/mapper.py' |'/home/root123/Desktop/reducer.py' final output 3639
root123@root123-Lenovo-ideapad-330-15IKB:~\$