

## **ASSIGNMENT – II**

**TITLE :**

To develop a map reduce program for word frequency analysis.

**NAME :** Shinde Shubham Dnyandev.    **ROLL NO :** 23107121.    **CLASS :** TY-B

**PROGRAM :****INPUT :**

I am Student of VPKBIET. I am Studying in AI&DS Department.

**MAPPER :**

```
#!/usr/bin/env python3
```

```
import sys

for lines in sys.stdin:
    line = lines.strip()
    words = line.lower().split()
    for word in words:
        print(word,1)
```

**REDUCER :**

```
#!/usr/bin/env python3
```

```
import sys

word_count={}

for lines in sys.stdin:
    word,count = lines.strip().split()
    word_count[word] = word_count.get(word,0) + int(count)

for word,count in word_count.items():
    print(word,count)
```

**OUTPUT :**File information - part-00000 X[Download](#)[Head the file \(first 32K\)](#)[Tail the file \(last 32K\)](#)Block information -- Block 0 ▾

Block ID: 1073741835

Block Pool ID: BP-1385713309-172.16.9.238-1759739735358

Generation Stamp: 1011

Size: 82

Availability:

- ailcomp20

## File contents

```
ai&ds 1
am 2
department. 1
i 2
in 1
of 1
student 1
studying 1
vpkbiet. 1
```

Close