**MAP REDUCER**

**input.txt**

Bus Car Train Train Plane Car Bus Bus Plane

**Code:**

from collections import defaultdict

def read\_input(file\_path):

    with open(file\_path, 'r') as f:

        for line in f:

            yield line.strip()

def mapper(line):

    for word in line.split():

        yield word, 1

def reducer(word, counts):

    return word, sum(counts)

def main(file\_path):

    lines = read\_input(file\_path)

    mapped = []

    for line in lines:

        mapped.extend(list(mapper(line)))

    grouped = defaultdict(list)

    for word, count in mapped:

        grouped[word].append(count)

    reduced = []

    for word, counts in grouped.items():

        reduced.append(reducer(word, counts))

    for word, count in reduced:

        print(f"{word}: {count}")

if \_\_name\_\_ == '\_\_main\_\_':

    main('input.txt')

RSA

ssh-keygen -t rsa

type C:\Users\YourUsername\.ssh\id\_rsa.pub

scp C:\Users\Sanis\.ssh\id\_rsa.pub [sanis@192.168.38.134:/home/sanis/.ssh/id\_rsa.pub](mailto:sanis@192.168.38.134:/home/sanis/.ssh/id_rsa.pub)

ip a

ssh sanis@ip

cat ~/.ssh/id\_rsa.pub >> ~/.ssh/authorized\_keys

cat authorized\_keys

sudo nano /etc/ssh/sshd\_config

sudo systemctl restart sshd

chmod 700 ~/.ssh

chmod 600 ~/.ssh/authorized\_keys

sudo systemctl restart sshd

Apache

Yum install firewalld

Sudo systemctl start firewalld

Sudo systemctl enable firewalld

Sudo systemctl stats firewalld

Yum install httpd

sudo firewall-cmd —permanent —add-service=http

sudo firewall-cmd —permanent —add-service=https

sudo systemctl start httpd

sudo systemctl enable httpd

sudo systemctl status httpd

(ip in browser)

Maria-Db

Sudo yum install mariadb-server

Sudo systemctl start mariadb

Sudo systemctl enable mariadb

Mysql –u root –p

Create database prime;

Use prime;

Create table test(id int primary key not null , name varchar(100));

Insert into test values (1,”test”);