1. Write a Python program to create a CSV file to store names of 10 students and their marks in four subjects. Find the percentage of each student and display the details. Also display the class average of each subject.

```
import csv
dict_value = [
{"Name":"Riya","MFC":88,"DC":79,"DS":78,"ASE":58},
{"Name":"Anu","MFC":88,"DC":69,"DS":71,"ASE":58},
{"Name":"Deva","MFC":68,"DC":99,"DS":58,"ASE":88},
{"Name":"Anil","MFC":68,"DC":69,"DS":73,"ASE":88},
{"Name":"rahul","MFC":75,"DC":69,"DS":86,"ASE":78},
{"Name":"Ansa","MFC":88,"DC":100,"DS":75,"ASE":78},
{"Name":"Benchamin","MFC":84,"DC":95,"DS":98,"ASE":70},
{"Name":"Asan","MFC":51,"DC":99,"DS":97,"ASE":79},
{"Name":"Malavika","MFC":89,"DC":89,"DS":78,"ASE":87},
{"Name":"Kevin","MFC":85,"DC":69,"DS":78,"ASE":78},]
fields = ["Name","MFC","DC","DS","ASE"]
with open('dictexam.csv','w') as csvfile:
  writer = csv.DictWriter(csvfile,fieldnames=fields)
  writer.writeheader()
  writer.writerows(dict_value)
  csvfile.close()
print("percentage\n")
mfc=0
dc=0
ds=0
ase=0
with open('dictexam.csv','r') as csvfiles:
```

```
readerobj = csv.DictReader(csvfiles)
  for row in readerobj:
print(row['Name'],":",float(float(int(row['MFC'])+int(row['DC'])+int(row['DS'])+int(row['ASE']))/400)*
100,"%")
    mfc=mfc+int(row['MFC'])
    dc=dc+int(row['DC'])
    ds=ds+int(row['DS'])
    ase=ase+int(row['ASE'])
print("average ")
print("MFC",mfc/10)
print("DC",dc/10)
print("DS",ds/10)
print("ASE",ase/10)
Output
percentage
Riya: 75.75 %
Anu: 71.5 %
Deva: 78.25 %
Anil: 74.5 %
rahul: 77.0 %
Ansa: 85.25 %
Benchamin: 86.75 %
Asan: 81.5 %
Malavika: 85.75 %
Kevin: 77.5 %
average
MFC 78.4
DC 83.7
DS 79.2
ASE 76.2
```

2. Write a program to read a file and display the lines starting with capital letter and word count greater than 5.

```
fr = open('qn.txt','r')
fn1 = open('output.txt','w')
content = fr.readlines()
count = 0
for line in content:
  if line[0].isupper() and len(line)>5:
    fn1.write(line)
fn1.close()
fn1 = open('output.txt', 'r')
cont1 = fn1.read()
print(cont1)
fr.close()
fn1.close()
file qn.txt
A coronavirus is a kind of common virus that causes an
infection in your nose, sinuses, or upper throat.
Most coronaviruses aren't dangerous.
In early 2020, after a December 2019 outbreak in China, the World Health Organization
```

identified SARS-CoV-2

as a new type of coronavirus. The outbreak quickly spread around the world.

COVID-19 is a disease caused by SARS-CoV-2 that can trigger

what doctors call a respiratory tract infection.

It can affect your

upper respiratory tract (sinuses, nose, and throat) or

Lower respiratory tract (windpipe and lungs).COVID-19 is a disease caused by SARS-CoV-2 that can trigger what doctors call a respiratory tract infection.

Output

A coronavirus is a kind of common virus that causes an

Most coronaviruses aren't dangerous.

In early 2020, after a December 2019 outbreak in China, the World Health Organization

COVID-19 is a disease caused by SARS-CoV-2 that can trigger

It can affect your

Lower respiratory tract (windpipe and lungs).