Python Series Test

Submitted by : Akhila M V

S1 MCA

ROLL NO: 104

Question 1:

- ## Ques1.py

```
import csv
dict_value = [
{'Name': 'AKHILA', 'MFC': 45,'DC':35,'DS':40,'ASE':30},
{'Name': 'ARCHITHA', 'MFC': 40,'DC':'25','DS':'30','ASE':'30'},
{'Name': 'AKSHITHA', 'MFC': 50,'DC':15,'DS':45,'ASE':38},
{'Name': 'ARCHANA', 'MFC': 25,'DC':23,'DS':30,'ASE':31},
{'Name': 'APARNA', 'MFC': 46,'DC':42,'DS':34,'ASE':28},
{'Name': 'ARATHY', 'MFC': 40,'DC':32,'DS':29,'ASE':27},
{'Name': 'SREELAKSHMI', 'MFC':
48,'DC':37,'DS':42,'ASE':39},
{'Name': 'KANAGA', 'MFC': 42,'DC':45,'DS':41,'ASE':37},
{'Name': 'DHANYA', 'MFC': 48,'DC':44,'DS':25,'ASE':24},
{'Name': 'BHAVYA', 'MFC': 50,'DC':35,'DS':47,'ASE':39}]
print("\n\nStudent Names and marks:\n")
fields = ["Name","MFC","DC","DS","ASE"]
```
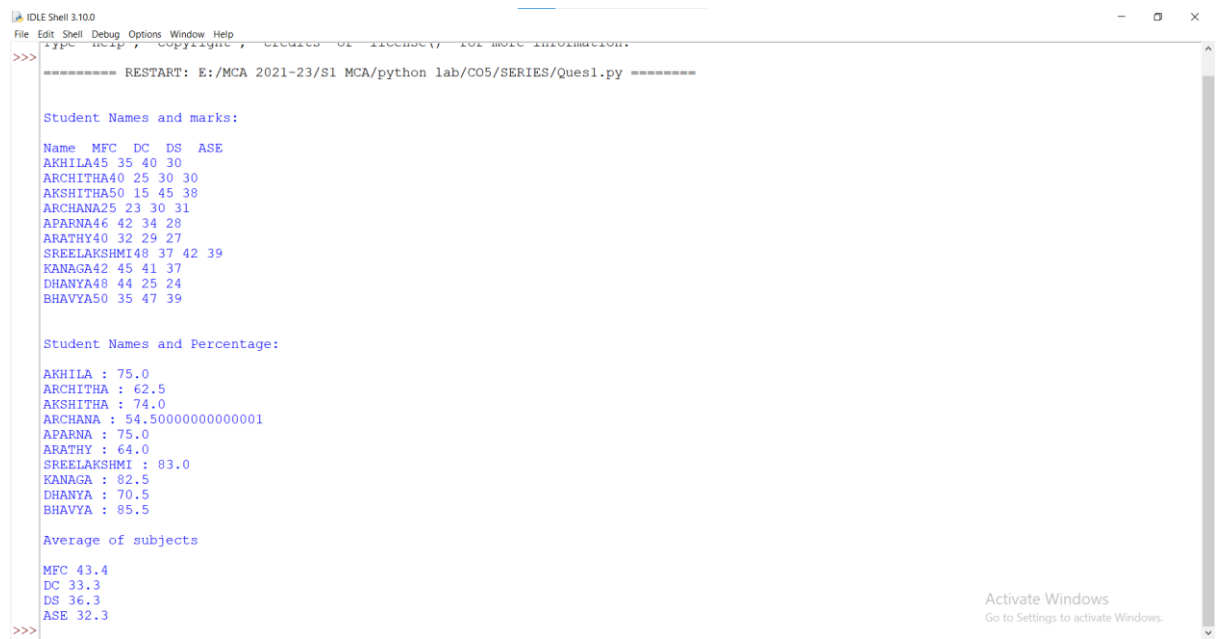
```python
with open('stud.csv','w') as c:
    writer = csv.DictWriter(c,fieldnames=fields)
    writer.writeheader()
    writer.writerows(dict_value)
    c.close()
mfc=0
dc=0
ase=0
ds=0
n=0
with open('dict.csv', 'r') as csvread:
    reader= csv.DictReader(csvread)
    for data in reader:
        if n==0:
            print(f'{"  ".join(data)}')
            n=n+1
        print(f'{data["Name"]}{data["MFC"]} {data["DC"]}
{data["DS"]} {data["ASE"]}' )
with open('stud.csv','r') as csvread:
    reader = csv.DictReader(csvread)
    print("\n\nStudent Names and Percentage:\n")
    for row in reader:

print(row['Name'],":",(int(int(row['MFC'])+int(row['DC'])+int(row['DS'])+int(row['ASE']))/200)*100)
        mfc=mfc+int(row['MFC'])
        dc=dc+int(row['DC'])
        ase=ase+int(row['ASE'])
        ds=ds+int(row['DS'])
print("\nAverage of subjects\n")
print("MFC",mfc/10)
print("DC",dc/10)
```

```
print("DS",ds/10)
print("ASE",ase/10)
```

OUTPUT:


```
========= RESTART: E:/MCA 2021-23/S1 MCA/python lab/CO5/SERIES/Ques1.py =========


Student Names and marks:

Name  MFC  DC  DS  ASE
AKHILA45 35 40 30
ARCHITHA40 25 30 30
AKSHITHA50 15 45 38
ARCHANA25 23 30 31
APARNA46 42 34 28
ARATHY40 32 29 27
SREELAKSHMI48 37 42 39
KANAGA42 45 41 37
DHANYA48 44 25 24
BHAVYA50 35 47 39


Student Names and Percentage:

AKHILA : 75.0
ARCHITHA : 62.5
AKSHITHA : 74.0
ARCHANA : 54.50000000000001
APARNA : 75.0
ARATHY : 64.0
SREELAKSHMI : 83.0
KANAGA : 82.5
DHANYA : 70.5
BHAVYA : 85.5

Average of subjects

MFC 43.4
DC 33.3
DS 36.3
ASE 32.3
```

Question 2:

- **Ques2.py**

file_obj = open('file1.txt','r+')

condition = True

```python
print("the line which have more than 5 letters and starting with capital letter is:")

while condition:

    line = file_obj.readline()

    words = line.split(" ")

    if(len(words)>5):

        x = words[0]

        if(x[0].isupper()):

            print(line)

    if not line:

        condition = False

        print("end of the file")
```

- **file1.txt**

  Apple is red.
  Strawberries are one of the most popular berries in world.
  An orange is orange in color.
  Carrot is orange.
  grapes are small.

  OUTPUT:

File Edit Shell Debug Options Window Help

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct  4 2021, 19:00:18) [MSC v.1929 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========= RESTART: E:/MCA 2021-23/S1 MCA/python lab/CO5/SERIES/Ques2.py ========
the line which have more than 5 letters and starting with capital letter is:
Strawberries are one of the most popular berries in world.

An orange is orange in color.

end of the file
>>>
```