

PYTHON FILE

- 1) Write a Python program to count the frequency of words in a file:

CODE:

```
from collections import Counter
def word_count(fname):
    with open(fname) as f:
        return Counter(f.read().split())
print("Number of words in the file :",word_count("test.txt"))
```

- 2) Write a program for Sorting objects of User Defined Class related to your project statement.

CODE:

```
class STUD:
    def __init__(self, a, b):
        self.a = a
        self.b = b

    def __repr__(self):
        return str((self.a, self.b))

stud = [STUD("Name", 1),
        STUD("Field_of_study", 3),
        STUD("Regno", 2),
        STUD("GPA", 4),
        STUD("Dept", 3)]

print(sorted(stud, key=lambda x: x.b))
```

- 3) Write a function in Python to count and display the total number of words in a text file

CODE:

```
file = open("C:\data.txt", "rt")
data = file.read()
words = data.split()
print('Number of words in text file :', len(words))
```

- 4) Sort JSON keys in and write them into a file Sort following JSON data alphabetical order of keys

CODE:

```
Import json

SampleJson={"id":1,"name":"value2","age":29}

Print("Started writing JSON data into a file")
```

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```
with open("sampleJson.json","w") as write_file:  
    json.dump(sampleJson,write_file,indent=4,sort_keys=True)  
print("Done writing")
```

5) Convert the vehicle object into json

CODE:

```
import json  
  
from json import JSONEncoder  
  
class Vehicle:  
  
    def __init__(self, name, engine, price):  
  
        self.name = name  
  
        self.engine = engine  
  
        self.price = price  
  
class VehicleEncoder(JSONEncoder):  
  
    def default(self, o):  
  
        return o.__dict__  
  
vehicle = Vehicle("Toyota Rav4", "2.5L", 32000)  
  
print("Encode Vehicle Object into JSON")  
  
vehicleJson = json.dumps(vehicle, indent=4, cls=VehicleEncoder)  
  
print(vehicleJson)
```