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"))

1. 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))

1. 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”)

with open(“sampleJson.json”,”w”) as write\_file:

json.dump(sampleJson,write\_file,indent=4,sort\_keys=True)

print(“Done writing”)

1. 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)