Day 4 python Assignment

1-The program takes a command line argument, this argument is the name of a text file.the program reads all the text and split them and calculate the 20 most used words in the file and then write them to a file called popular_words.txt



2-Create a Vehicle class without any variables and methods

```
In []: class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    p1 = Person("John", 36)
    print(p1.name)
    print(p1.age)
In [17]: class Vehicle:
    pass
```

3- Create a Vehicle class with max_speed and mileage instance attributes

```
In [18]: class Vehicle:
    def __init__(self,max_speed,mileage):
        self.max_speed = max_speed
        self.mileage = mileage
```

4- Write a Python class which has two methods: get_String and print_String. get_String accept a string from the user and print_String print the string in upper case

```
In [20]: class String_Processor():
    def __init__(self):
        self.z = ""
    def get_String(self):
        self.z = input("Enter your text: ")
        print(self.z)
    def print_String(self):
        print(self.z.upper())

In [23]: str_1 = String_Processor()
    str_1.get_String()
    Enter your text: mostafa
    mostafa

In [24]: str_1.print_String()
MOSTAFA
```

5- create calculator module has A- Add method B- multiple method C- subtract method D - Divide method

```
In [28]: import Calc
In [29]: Calc.add(2,3)
Out[29]: 5
In [30]: Calc.sub(3,2)
Out[30]: 1
In [32]: Calc.multi(3,2)
Out[32]: 6
In [33]: Calc.divide(10,2)
Out[33]: 5.0
```