Aim: Write python programs to implement different file handling operations.

- 1. Write a python program which will count the spaces, tabs, and lines in any given text file. Check if the file exists. If file does not exists then handle that exception
- 2. The file cities_and_times.txt contains city names and times. Each line contains the name of the city, followed by the name of the day ("Sun") and the time in the form hh:mm.

 Read in the file and create an alphabetically ordered list of the form

```
[('Amsterdam', 'Sun', (8, 52)), ('Anchorage', 'Sat', (23, 52)), ('Ankara', 'Sun', (10, 52)), ('Athens', 'Sun', (9, 52)), ('Atlanta', 'Sun', (2, 52)), ('Auckland', 'Sun', (20, 52)), ('Barcelona', 'Sun', (8, 52)), ('Beirut', 'Sun', (9, 52)), ...

('Toronto', 'Sun', (2, 52)), ('Vancouver', 'Sun', (0, 52)), ('Vienna', 'Sun', (8, 52)), ('Warsaw', 'Sun', (8, 52)), ('Washington DC', 'Sun', (2, 52)), ('Winnipeg', 'Sun', (1, 52)), ('Zurich', 'Sun', (8, 52))]
```

Finally, the list should be dumped for later usage with the pickle module.

Objective of the Experiment:

- 1. Understanding different operations that can be performed on files in python.
- 2. Understanding **pickle module** in python

Source code for the implementation:

(Write only important functions)

Post Labs:

- Write a program to find the longest word in a text file.
 Explain seek() and tell() methods on file in python.
 How are renaming and deleting performed on a file? Give the syntax for each.
 Explain "pickle" in python.