**Full Stack Gen AI Course**

**Week 3 (Python):**

**Problem Statement 1:**

**Title: Managing Personal Information with Python**

a) Write a class which takes input from the console name of the person, and his/her date of birth. Then when the person’ name is typed it should display the dob.

b) Some persons' dob are secret so those should not be displayed, but will be stored. If a secret person's name is entered then you should just display “secret”.

However all the data should be persisted, and loaded. We can add to the list. What data structure would you create for this problem?

**File contains:-**

problem1\_data\_file.pickle => Entered data will be saved in that file.

problem1\_solution.py => Solution code of problem1 statement.

**Problem Statement 2:**

**Title: Compact Address Book Management**

a) Create an addressBook class as follows: Fname, LName, StreetAddress, City, State, Country, Mobile, email.

Write a class which will take the input from the console into python memory and also store it in disk.

It should also remember the data entered. Please note that only email, and phone numbers are guaranteed to be different. The program should not accept duplicate email/phone numbers. All other fields could be duplicated.

Design this as a compact class that optimizes on the memory as much as possible

1.Function to find number of occurrences of a Fname.

2.Function to find number of occurrences of a Lname.

3.Function to find the number of occurrences of a street.

4.Write one function which can do all of the above 3 tasks

**File contains:-**

problem2\_data\_file.pickle => Entered data will be saved in that file.

problem2\_solution.py => Solution code of problem2 statement.