

IT-Workshop-1

Project Report

Criminal Record Database

Problem Statement:

In this Project we create a database of Criminal record according to their Names, Crime, Offense date, Disposed Date and Confinement type. Now Write a Python Code to Access this data by Different Methods-

- By Display Full List
- Access the Data by Criminal Name

Create Different Plots using Matplotlib Library in Python file.

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Here we Create a Python File and Import the libraries named as NumPy, Panda, Matplotlib which we will used in this project.

First, we create a class name Criminal and initialize the variable jail as “COUNTY JAIL” and now use `_init_` method function to assign values to the data members. Now we create another function name `GetCriminalList` using self argument and define a dictionary name data in this function where we write the database of criminal record such as Names, Charge, Offense Date, Disposed Date and Confinement type.

In the end of This function we use Panda Library and use the Panda DataFrame to create a data frame using index as the case number and pass the dictionary variable data in it and at last use print function to print this data base.

Now use some other functions to print the data Name wise. Here we use different functions for different case numbers. In this function we store the data of that criminal as name, charge...etc.

And after that we use data frame using pandas with index as the case number and pass the criminal details which we store in dictionary variable. Similarly create functions for other cases also.

Now we use if and else for choose the users choice and take input of user choice. Now if we run this then it first ask for select choice of display the data full list or display the data of a particular criminal.

```
Welcome to Criminal Record Database
1. Display Full list
2. Display namewise
█
```

Now if we enter 1 then it shows full list --

```
Welcome to Criminal Record Database
1. Display Full list
2. Display namewise
1

```

	Name	Charge	Offense Date	Disposed	Confinement type
case no.1	John	Murder	20/09/2012	20/09/2019	COUNTY JAIL
case no.2	Ithan	Kidnapping	10/01/2015	10/01/2019	COUNTY JAIL
case no.3	Pekk	Tax Evasion	11/09/2010	11/09/2022	COUNTY JAIL
case no.4	Sherlock	Blackmail	01/01/2020	01/01/2023	COUNTY JAIL
case no.5	Tyrion	Child Abuse	30/03/2011	30/03/2025	COUNTY JAIL
case no.6	Mike	Cybercrime	12/12/2015	12/12/2022	COUNTY JAIL
case no.7	Will	Fraud	10/10/2010	10/10/2026	COUNTY JAIL
case no.8	Steve	Hit and Run	09/04/2017	09/04/2024	COUNTY JAIL
case no.9	Dustin	Terrorism	10/03/2005	10/03/2029	COUNTY JAIL
case no.10	Jonathan	Robbery	20/09/2019	20/09/2030	COUNTY JAIL
case no.11	Silverdeev	Smuggling	20/10/2013	20/10/2035	COUNTY JAIL
case no.12	Majnu Bhai	Paintings Smuggler	15/09/2013	15/03/2024	TIHAR JAIL
case no.13	Selmon Bhoi	Animal Abuse,Hit and Run	10/12/2010	20/03/2022	TIHAR JAIL
case no.14	Sanjay Dutt	Carrying concealed weapon	15/02/2010	12/12/2022	TIHAR JAIL

```
Press q to quit and c to continue

```

Now if we enter 2 then it ask for enter the criminal name and then we enter and it provide the full record of that criminal --

```
Welcome to Criminal Record Database
1. Display Full list
2. Display namewise
2
Enter the name :Jonathan

```

	Name	Charge	Offense Date	Dispose	Confinement type
case no.10	Jonathan	Robbery	20/09/2019	20/09/2030	COUNTY JAIL

```
Press q to quit and c to continue

```

Now we create another python file for create some plots related to that criminal record database, where we use Matplotlib Library in python to create different plots.

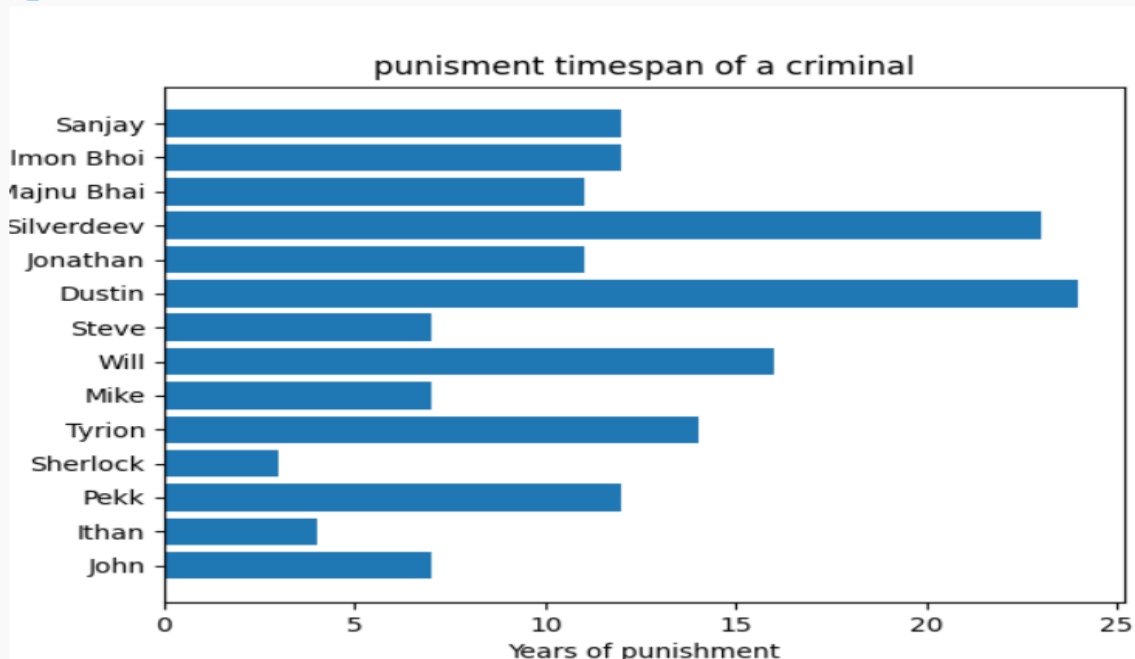
In this file we use the same criminal record database and create some array using NumPy library in python and use this data of array to create plots. When we run this file it will ask user to select serial number to which plot you want to see --

```
Choose the data which you want to see from here --
1.For how many years crimnal in jail
2.Criminals for more than 10 years in Jail
3.Criminal for less than 10 years in Jail
4.In which year criminal was caught
Enter the Number of data which you want to see :-
```

Now which plot you want to show enter that number and if you enter other than this it will ask to enter a valid number.

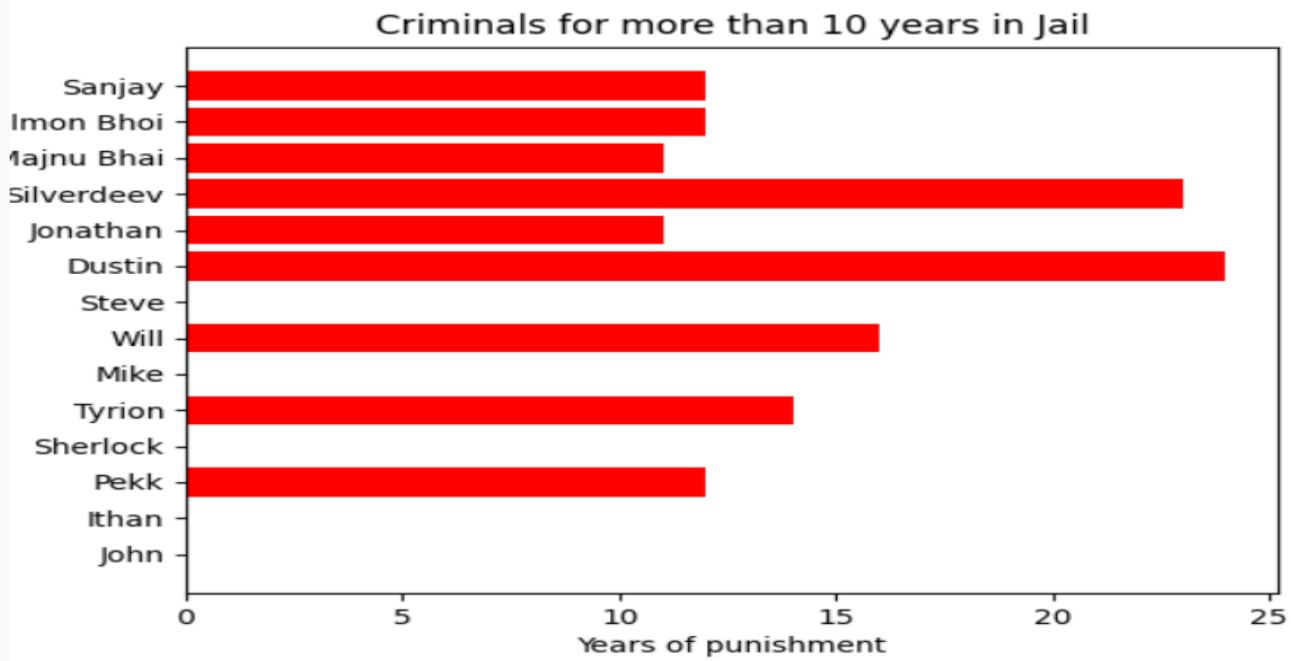
```
Enter the Number of data which you want to see :-
```

```
1
```



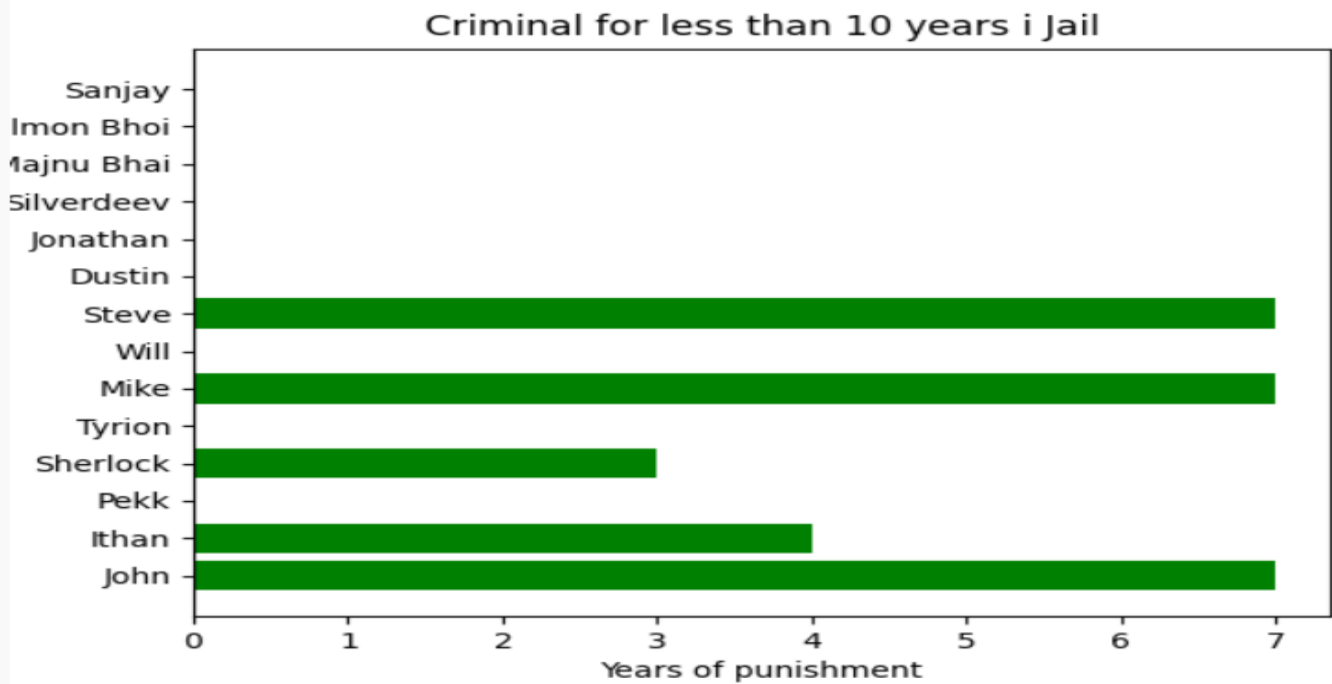
Enter the Number of data which you want to see :-

2



Enter the Number of data which you want to see :-

3



Enter the Number of data which you want to see :-

4

