**EXPERIMENT NO. 0**

**A.1 AIM: - To perform data analysis using python data structures**

**A.2 Prerequisite**

**Knowledge of List, Tuple, dictionary and sets.**

**A.3 Outcome**

After successful completion of this experiment, students will be able to

1. Understand data for given scenario and analyse.
2. Understand and implement different conditions and find the result.

**A.4 Theory**

Refer following Google-colab links for basic understanding

<https://colab.research.google.com/drive/1_azqOSxG2K9raRV2-CQ22p9oLAB2-P28>

<https://colab.research.google.com/drive/1axE3p5CHcuptu9ueWv32tQX-s6U5fCPj>

<https://colab.research.google.com/drive/1M_aDVkYeECo9CPtZTtR2OYMJ8qtTr9xt>

<https://colab.research.google.com/drive/1miEqkeMftdoYFJZRbiIxmEz2Q_A6ItEP>

<https://colab.research.google.com/drive/1xA5atfLEOVBuGsewATmlvoiL-qEEFkBo#scrollTo=CREv1jWLbC3->

**A.5.Tasks:**

**An organization manages sport events for their employees for the following sports**

1. **Cricket**
2. **Volleyball**
3. **Hockey**

**It maintains data of their employee in the Master Table and separately as per participation in the events.**

**Tasks need to be performed.**

1. Access the files in different formats – excel, csv etc.
2. Use pandas features to access the files

Perform following analysis:

1. Print master data and data of all the participant separately
2. Want the list of employees who participated in all the events with complete informaton
3. How many employees have participated in only one event with name and id?
4. Want to Understand most active department in sports
5. Want the details of youngest and eldest employee who participated in all the events
6. Which city has maximum participation?
7. List of employees participated in all events from mumbai
8. Name and Age of all the employees participation in cricket from pune

Soft Code:

Result: