* 1. **1. Perform the following operations using Python on the Facebook metrics data sets**
  2. **a. Create data subsets**
  3. **b. Merge Data**
  4. **c. Sort Data**
  5. **d. Transposing Data**
  6. **e. Shape and reshape Data**
  7. **2. Perform the following operations using Python on the Air quality and Heart Diseases**

**data sets**

* 1. **a. Data cleaning**
  2. **b. Data integration**
  3. **c. Data transformation**
  4. **d. Error correcting**
  5. **e. Data model building**
  6. **3. Visualize the data in the Facebook metrics data set or Air quality and Heart Diseases**
  7. **dataSet using Python libraries matplotlib by plotting different graphs .**
  8. **4. Perform the following data visualization operations using Tableau**
  9. **a. 1D (Linear) Data visualization**
  10. **b. 2D (Planar) Data Visualization**
  11. **c. 3D (Volumetric) Data Visualization**
  12. **d. Temporal Data Visualization**
  13. **e. Multidimensional Data Visualization**
  14. **f. Tree/ Hierarchical Data visualization**

**5. Design a distributed application using MapReduce(Using Java) which processes a log file**

**of a system. List out the users who have logged for maximum period on the system. Use**

**simple log file from the Internet and process it using a pseudo distribution mode on**

**Hadoop platform.**