Group Assignment

1. Filter purchase data (**corrected division**) for LSI & service data (**division**) for LSI
2. Map filtered purchase data & service data (check how many purchased equipment are being serviced) define the shape?
3. Make new column of ageing of the equipment for above merge data with today’s date
   * With first value as equipment install date if equipment install date is not available then
   * Second preference to equipment shipped date if equipment shipped date is not available then
   * Last preference to equipment created on
   * If none out of 3 available drop those records
4. Make new column **“Years Since Last Service”** (today’s date- **'case created date'**)
5. Clean equipment model name column for LSI data based on (equipment details file shared)
   * Value count for equipment model after cleaning
6. Map region with **ship-to state name** based on excel file details given in equipment details.
7. Map opportunity value based on equipment details file.
8. Map Product life for **equipment model name** based on equipment details excel file.
9. Fill na values of **ship-to customer number** with 0 (zero)
10. Drop all na values of **equipment model name**
11. Based on rules given in equipment details file segregate equipment into those rules
    * Value counts for all the rules given (equipment segregation)
    * \*Bar graph is preferred\*
12. Make four columns
    * Both mobile & email available: if both ‘**most used contact email ism2’** & ‘**last end user contacts mobile ism2**’ is available
    * Neither mobile & email available: if neither ‘**most used contact email ism2’** & nor ‘**last end user contact mobile ism2**’ is available
    * Only mobile available: if ‘**most used contact email ism2’** is not available& ‘**last end user contact mobile ism2**’ is available
    * Only email available: if ‘**most used contact email ism2’** is available& ‘**last end user contact mobile ism2**’ is not available

**Opportunity Value Should Be Considered Only for Buy Back Equipment**

1. Which Region has top opportunity value & how much?
2. Top 5 states with highest opportunity value?
3. Top 3 states within each region with highest opportunity value?
4. Top 3 highest opportunity value per equipment model in every region
5. For above 4 questions how many equipment (**equipment number**) are there & total number of customers are there (**ship-to customer number)** out of whichhow many customers have Both email & mobile available, neither mobile & email available, only email available & only mobile available.

**Sample Output/Answer in Pandas for Above Questions**

