



Module 5: Pandas Assignment - 1

Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to analyze the `customer_churn` dataset with various functions.

Tasks To Be Performed:

1. Start off by importing the `customer_churn.csv` file in the jupyter notebook and store that in `churn DataFrame`.
2. From the `churn DataFrame`, select only 3rd, 7th, 9th, and 20th columns and all the rows and store that in a new `DataFrame` named `newCols`.
3. From the original `DataFrame`, select only the rows from the 200th index till the 1000th index(inclusive) column.
4. Now select the rows from 20th index till 200th index(exclusive),and columns from 2nd index till 15th index value.
5. Display the top 100 records from the original `DataFrame`.
6. Display the last 10 records from the `DataFrame`.
7. Display the last record from the `DataFrame`.
8. Now from the `churn DataFrame`, try to sort the data by the `tenure` column according to the descending order.
9. Fetch all the records that are satisfying the following condition:
 - a. `Tenure>50` and the gender as 'Female'
 - b. Gender as 'Male' and `SeniorCitizen` as 0
 - c. `TechSupport` as 'Yes' and `Churn` as 'No'
 - d. `Contract type` as 'Month-to-month' and `Churn` as 'Yes'
10. Use a for loop to calculate the number of customers that are getting the tech support and are male senior citizens.