**Pandas Assignment**

Q1. How do you load a CSV file into a Pandas DataFrame?

Ans => We can load the CSV file into a Pandas DataFrame using **read\_csv()** function

Q2. How do you check the data type of a column in a Pandas DataFrame?

Ans => Using **dtypes** function

Q3. How do you select rows from a Pandas DataFrame based on a condition?

Ans => We can select using **loc[index]**

Q4. How do you rename columns in a Pandas DataFrame?

Ans =>Using **rename()** function

Q5. How do you drop columns in a Pandas DataFrame?

Ans => Using **drop(“Column\_name”,axis = 1)**

Q6. How do you find the unique values in a column of a Pandas DataFrame?

Ans => Using **unique()** function

Q7. How do you find the number of missing values in each column of a Pandas DataFrame?

Ans => Using **isnull()** function

Q8. How do you fill missing values in a Pandas DataFrame with a specific value?

Q9. How do you concatenate two Pandas DataFrames?

Ans => Using **concat()** funtion

Q10. How do you merge two Pandas DataFrames on a specific column?

Ans => we can use **On keyword** with the column while cancatenating to DataFrames

Q11. How do you group data in a Pandas DataFrame by a specific column and apply an aggregation function?

Ans => Use **groupby()** to groupby with column and use **agg()** for aggregting a function.

Q12. How do you pivot a Pandas DataFrame?

Ans =>Using **pivot()** function

Q13. How do you change the data type of a column in a Pandas DataFrame?

Ans => Using **to\_numeric()** we can change the datatype of a column

Q14. How do you sort a Pandas DataFrame by a specific column?

Ans =>Using **sort\_values()** we can sort a specific column

Q15. How do you create a copy of a Pandas DataFrame?

Ans => Using **copy()** function we can copy a dataframe

Q16. How do you filter rows of a Pandas DataFrame by multiple conditions?

Ans => Using **query()** or Indexing we can have multiple conditions

Q17. How do you calculate the mean of a column in a Pandas DataFrame?

Ans => Using **mean()** and mentioning their axis.

Q18. How do you calculate the standard deviation of a column in a Pandas DataFrame?

Ans => Using the **std()** function.

Q19. How do you calculate the correlation between two columns in a Pandas DataFrame?

Ans => Using the **corr()** function.

Q20. How do you select specific columns in a DataFrame using their labels?

Ans => Using **dataframe\_var[‘Label\_name’]**

Q21. How do you select specific rows in a DataFrame using their indexes?

Ans => Using **iloc[[index]]**

Q22. How do you sort a DataFrame by a specific column?

Ans => Using **sort\_value()**

Q23. How do you create a new column in a DataFrame based on the values of another column?

Ans => Use **apply()** function to add new column

Q24. How do you remove duplicates from a DataFrame?

Ans =>Using **drop\_duplicates()** function.

Q25. What is the difference between .loc and .iloc in Pandas?

Ans => loc uses the **labels** to get the value

Iloc uses **index** to get the value