ASSIGNMENT ①
HOW TO SORT AND RANK DATA

```python
import pandas as pd

# Create a Sample DataFrame
data = { 'Name' : [ 'Alice', 'Bob', 'charlie', 'David'], 'Age': [25, 35, 36, 48 ],
         'Salary' : [10000, 9600, 54000, 22000] }

df =  pd.DataFrame (data)

# Sorting by 'Age' in ascending order.
sorted_data  = df.sort_values (by = 'Age', ascending = True)


# Ranking the 'Age' Column.
df['Rank'] = df['Age'].rank (method = 'average')

print ("Sorted Data:")

print (sorted_data)

print ("\n Ranked Data:")

print (df)
```

EXERCISE 2

MEAN MEDIAN, CUMULATIVE SUM, minimum AND
Maximum FOR SPECIFIC COLUMNS.

Import pandas as pd

```python
# Create a Sample DataFrame.
data = { 'A': [1,2,3,4,5], 'B': [10,20,30,40,50] }

df = pd.DataFrame (data).

# Calculating mean, median, cumulative sum, min, and
max for column 'A'.
mean_A = df['A'].mean()

median_A = df['A'].median()

cumsum_A = df['A'].cumsum()

min_A = df['A'].min()

max_A = df['A'].max()

print(f"Mean of Column 'A': {mean_A}")

print(f"Median of Column 'A': {median_A}")

print(f"Cumulative sum of Column 'A': \n {cumsum_A}")

print(f"Minimum Value in Column 'A': {min_A}")

print(f"Maximum Value in Column 'A': {max_A}")
```