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## **ASSIGNMENT – 1**

TASK 1:

Create a pandas data frame (DataFrame name as 'df') (10 observation and 5 features)

TASK- 2:

Check the info of 'df'

TASK 3:

Check the descriptive statistics of 'df'

TASK 4:

check the 4th index observation with 'loc' slicing operator.

TASK 5:

Check the null values in your 'df'

## **LINK OF THE COLAB NOTEBOOK:**

https://colab.research.google.com/drive/1c\_-btnET4yKXHDtpL2A59IoVIhPbFdBx?usp=drive\_link

## PROGRAM AND OUTPUT:

```
Task 1 - Displaying DataFrame 'df':
                                                                                                         Task 3:
    Feature1 Feature2 Feature3 Feature4 Feature5
39 0.422222 B -0.491143 True
10 0.714849 B 0.947392 False
                                                                                                                 Feature1 Feature2 Feature4
                                                                                                         count 10.000000 10.000000 10.000000

        mean
        57.000000
        0.564227
        -0.093521

        std
        29.009577
        0.337121
        1.367498

        min
        10.000000
        0.001185
        -3.304104

            55 0.857070 C -0.205462 True
80 0.590314 A -0.538208 True
44 0.242992 B 0.080077 False
97 0.923399 A 0.114977 False
                                                                                                         25% 40.250000 0.287799 -0.452384
5
                                                                                                         50% 58.500000 0.652581 -0.062692
            90 0.893006
                                         C -3.304104
                                                                     True
                                                                                                         75% 78.250000 0.851800 0.708454
max 97.000000 0.923399 1.891089
            73 0.001185 C 1.891089
20 0.161239 C 0.906279
62 0.835991 B -0.336108
           73 0.001185
20 0.161239
                                                                     False
                                                                     False
                                                                     True
                                                                                                         Task 4:
                                                                                                         Observation at index 4:
Task 2:
                                                                                                         Feature1 44
<class 'pandas.core.frame.DataFrame'>
                                                                                                                      0.242992
                                                                                                         Feature2
RangeIndex: 10 entries, 0 to 9
                                                                                                         Feature3
Data columns (total 5 columns):
                                                                                                         Feature4
                                                                                                                      0.080077
 # Column Non-Null Count Dtype
                                                                                                         Feature5
                                                                                                                       False
                                                                                                         Name: 4, dtype: object
       Feature1 10 non-null
Feature 10 non-null 2 Feature 10 non-null 3 Feature 10 non-null 4 Feature 10 non-null
                                               float64
                                               object
                                                                                                         Task 5:
                                                float64
                                                                                                         Feature1 0
                                               bool
                                                                                                         Feature2
dtypes: bool(1), float64(2), int64(1), object(1)
                                                                                                         Feature3
memory usage: 458.0+ bytes
                                                                                                         Feature4
None
                                                                                                         Feature5 0
                                                                                                         dtype: int64
```