

ASSIGNMENT-1

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QUESTIONS

Task - 1 Create a pandas dataframe (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'


ANSWERS

TASK-1

```
import pandas as pd
df= pd.read_csv('/BenderlyZwick.csv')
df=pd.DataFrame(df)
df1=df.head(10)
df1
```


	Unnamed: 0	returns	growth	inflation	growth2	inflation2
0	1	NaN	NaN	NaN	3.9	2.2
1	2	NaN	NaN	NaN	4.0	2.1
2	3	53.0	6.7	-0.4	-1.3	0.6
3	4	31.2	2.1	0.4	5.6	1.3
4	5	3.7	1.8	2.9	2.1	1.9
5	6	-13.8	-0.4	3.0	1.7	3.2
6	7	41.7	6.0	1.7	-0.8	1.8
7	8	10.5	2.1	1.5	5.8	2.2
8	9	-1.3	2.6	1.8	2.2	1.9
9	10	26.1	5.8	0.8	2.6	1.2

TASK-2

 `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 6 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Unnamed: 0   10 non-null    int64
1   returns      8 non-null     float64
2   growth       8 non-null     float64
3   inflation    8 non-null     float64
4   growth2      10 non-null    float64
5   inflation2   10 non-null    float64
dtypes: float64(5), int64(1)
memory usage: 608.0 bytes
```

TASK-3

 `df.describe()`

	Unnamed: 0	returns	growth	inflation	growth2	inflation2
count	10.00000	8.000000	8.000000	8.000000	10.00000	10.00000
mean	5.50000	18.887500	3.337500	1.462500	2.58000	1.84000
std	3.02765	22.880774	2.518468	1.173441	2.37758	0.70111
min	1.00000	-13.800000	-0.400000	-0.400000	-1.30000	0.60000
25%	3.25000	2.450000	2.025000	0.700000	1.80000	1.42500
50%	5.50000	18.300000	2.350000	1.600000	2.40000	1.90000
75%	7.75000	33.825000	5.850000	2.075000	3.97500	2.17500
max	10.00000	53.000000	6.700000	3.000000	5.80000	3.20000

TASK-4



```
df.loc[4]
```



```
Unnamed: 0    5.0  
returns      3.7  
growth       1.8  
inflation    2.9  
growth2      2.1  
inflation2   1.9  
Name: 4, dtype: float64
```

TASK-5



```
df.isnull()
```



	Unnamed: 0	returns	growth	inflation	growth2	inflation2
0	False	True	True	True	False	False
1	False	True	True	True	False	False
2	False	False	False	False	False	False
3	False	False	False	False	False	False
4	False	False	False	False	False	False
5	False	False	False	False	False	False
6	False	False	False	False	False	False
7	False	False	False	False	False	False
8	False	False	False	False	False	False
9	False	False	False	False	False	False



```
df.isnull().sum()
```



```
Unnamed: 0    0  
returns      2  
growth       2  
inflation    2  
growth2      0  
inflation2   0  
dtype: int64
```