

+ Code

+ Text

Task 1 - Create a pandas dataframe (DataFrame name as 'df') (10 observation and 5 features)

```
import pandas as pd
d = {"Chocolate":["Kinder Joy","Kit-Kat","Milky Bar","Dairy Milk","Kisses","Tobl",
      "Brand":["Ferrero","Nestle","Nestle","Cadbury","Hershey's","Toblerone","Fer",
      "Price(Rs)": [45,30,20,85,50,225,149,20,120,50],
      "Weight(g)": [20,38.5,38,60,36,100,50,40,45,45],
      "Sugar Content(g)": [10,15.1,18.7,33.3,16.5,56,20,24.4,30,22.1]}
df = pd.DataFrame(d)
df
```

	Chocolate	Brand	Price(Rs)	Weight(g)	Sugar Content(g)	
0	Kinder Joy	Ferrero	45	20.0	10.0	
1	Kit-Kat	Nestle	30	38.5	15.1	
2	Milky Bar	Nestle	20	38.0	18.7	
3	Dairy Milk	Cadbury	85	60.0	33.3	
4	Kisses	Hershey's	50	36.0	16.5	
5	Toblerone	Toblerone	225	100.0	56.0	
6	Ferrero Rocher	Ferrero	149	50.0	20.0	
7	5-Star	Cadbury	20	40.0	24.4	
8	m&m's	M&M's	120	45.0	30.0	
9	Snickers	Mars	50	45.0	22.1	



Task 2 - Check the info of 'df'

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 5 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Chocolate              10 non-null     object
1   Brand                  10 non-null     object
2   Price(Rs)              10 non-null     int64
3   Weight(g)              10 non-null     float64
4   Sugar Content(g)       10 non-null     float64
dtypes: float64(2), int64(1), object(2)
memory usage: 528.0+ bytes
```

Task 3 - Check the descriptive statistics of 'df'

```
df.describe()
```

	Price(Rs)	Weight(g)	Sugar Content(g)	
count	10.000000	10.000000	10.000000	
mean	79.400000	47.250000	24.610000	
std	66.776909	21.204363	13.004653	
min	20.000000	20.000000	10.000000	
25%	33.750000	38.125000	17.050000	
50%	50.000000	42.500000	21.050000	
75%	111.250000	48.750000	28.600000	
max	225.000000	100.000000	56.000000	

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

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

```
Chocolate      Kisses
Brand          Hershey's
Price(Rs)      50
Weight(g)      36.0
Sugar Content(g) 16.5
Name: 4, dtype: object
```

Task 5 - Check the null values in your 'df'

```
df.isnull().any()
```

Chocolate	False
Brand	False
Price(Rs)	False
Weight(g)	False
Sugar Content(g)	False
dtype: bool	

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