

TASK-1

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```
[2] import pandas as pd
```

```
[1] data = {
    'Name' : ['Haneul', 'Eun', 'Dae', 'Iseul', 'Chul', 'Jae',
    'Sook', 'Hae', 'Mi sun', 'Mi cha'],
    'Age' : [18,10,24,23,25,20,19,22,22,19],
    'Marks' : [14,15,12,16,20,18,19,17,17,17],
    'City' : ['Busan', 'Jeju', 'Geoje', 'Ulsan',
    'Jinhae', 'Seoul', 'Yeosu', 'Gunsan', 'Naju', 'Wonju']
}
```


```
df = pd.DataFrame(data)
```

```
print(df)
```

| | Name | Age | Marks | City |
|---|--------|-----|-------|--------|
| 0 | Haneul | 18 | 14 | Busan |
| 1 | Eun | 10 | 15 | Jeju |
| 2 | Dae | 24 | 12 | Geoje |
| 3 | Iseul | 23 | 16 | Ulsan |
| 4 | Chul | 25 | 20 | Jinhae |
| 5 | Jae | 20 | 18 | Seoul |
| 6 | Sook | 19 | 19 | Yeosu |
| 7 | Hae | 22 | 17 | Gunsan |
| 8 | Mi sun | 22 | 17 | Naju |
| 9 | Mi cha | 19 | 17 | Wonju |

```
[5] df.info()
```


```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 4 columns):
#   Column  Non-Null Count  Dtype
---  -
0   Name    10 non-null      object
1   Age     10 non-null      int64
2   Marks   10 non-null      int64
3   City    10 non-null      object
dtypes: int64(2), object(2)
memory usage: 448.0+ bytes
```

 `df.describe()`



| | Age | Marks |
|-------|-----------|-----------|
| count | 10.000000 | 10.000000 |
| mean | 20.200000 | 16.500000 |
| std | 4.263541 | 2.368778 |
| min | 10.000000 | 12.000000 |
| 25% | 19.000000 | 15.250000 |
| 50% | 21.000000 | 17.000000 |
| 75% | 22.750000 | 17.750000 |
| max | 25.000000 | 20.000000 |




 `observation = df.loc[3]`

`[] print(observation)`

Name Iseul
Age 23
Number 4
Marks 16
City Ulsan
Name: 3, dtype: object

`[10] null_values = df.isnull()`

 `print(null_values)`



| | Name | Age | Marks | City |
|---|-------|-------|-------|-------|
| 0 | False | False | False | False |
| 1 | False | False | False | False |
| 2 | False | False | False | False |
| 3 | False | False | False | False |
| 4 | False | False | False | False |
| 5 | False | False | False | False |
| 6 | False | False | False | False |
| 7 | False | False | False | False |
| 8 | False | False | False | False |
| 9 | False | False | False | False |