

## Practical 4

### Skill Development

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```
✓ [42] # Shivam Tawari (A-58)  
0s
```

```
✓ [43] import pandas as pd  
0s
```

#### ▼ Reindexing in Pandas DataFrame.

```
✓ [44] data = {  
0s     "age": [50, 40, 30, 40],  
       "qualified": [True, False, False, False]  
     }  
     index = ["P", "Q", "R", "S"]  
     df = pd.DataFrame(data, index=index)  
     df
```

	age	qualified
P	50	True
Q	40	False
R	30	False
S	40	False

```
✓ 0s [45] new = ["A", "B", "C", "D"]
newdf = df.reindex(new)
print(newdf)
```

```
↳   age qualified
A  NaN         NaN
B  NaN         NaN
C  NaN         NaN
D  NaN         NaN
```

## ▼ Mapping external values to dataframe values in Pandas.

```
✓ 0s [46] # new column for dataframe
col = { 50:'M',
        40:'F',
        30:'M',
        40:'M'}

# combine this new data with existing DataFrame
df["Gender"] = df["age"].map(col)
df
```

```
✓ 0s [46]
```

	age	qualified	Gender
<b>P</b>	50	True	M
<b>Q</b>	40	False	M
<b>R</b>	30	False	M
<b>S</b>	40	False	M

## ▼ How to drop one or multiple columns in Pandas Dataframe.

```
✓ 0s [47] # Dropping the columns
df = df.drop('Q', 0)
df
```

	age	qualified	Gender
<b>P</b>	50	True	M
<b>R</b>	30	False	M
<b>S</b>	40	False	M

## ▼ Limited rows selection with given column in Pandas

```
✓ [48] data = {'Name': ['Jai', 'Princi', 'Gaurav', 'Anuj'],  
0s      'Age': [27, 24, 22, 32],  
      'Address': ['Delhi', 'Kanpur', 'Allahabad', 'Kannauj'],  
      'Qualification': ['Msc', 'MA', 'MCA', 'Phd']}
```

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

```
# select three rows and two columns  
print(df.loc[1:3, ['Name', 'Qualification']])
```

	Name	Qualification
1	Princi	MA
2	Gaurav	MCA
3	Anuj	Phd