In [3]:
```
# let us import the Pandas Library
import pandas as pd
```

In [4]:
```
#In this practice lab, we will learn how to create a DataFrame out of a dictionary.
#Let us consider a dictionary 'x' with keys and values as shown below.

#We then create a dataframe from the dictionary using the function pd.DataFrame(dict)
#Define a dictionary 'x'

x = {'Name': ['Rose','John', 'Jane', 'Mary'], 'ID': [1, 2, 3, 4], 'Department': ['Architect Group', 'Software Group', 'Design Team', 'Infrastructure'],
      'Salary':[100000, 80000, 50000, 60000]}

#casting the dictionary to a DataFrame
df = pd.DataFrame(x)

#display the result df
df
```

Out[4]:

	Name	ID	Department	Salary
0	Rose	1	Architect Group	100000
1	John	2	Software Group	80000
2	Jane	3	Design Team	50000
3	Mary	4	Infrastructure	60000

In [6]:
```
#Column Selection:¶
#To select a column in Pandas DataFrame, we can either access the columns by calling them by their columns name.

#Let's Retrieve the data present in the ID column.

x= df[['ID']]
x
```

Out[6]:

	ID
0	1
1	2
2	3
3	4

In [8]:
```
#check the type of x
type(x)
```

Out[8]:
```
pandas.core.frame.DataFrame
```

In [10]:
```
#Access to multiple columns
#Let us retrieve the data for Department, Salary and ID columns
x= df[['Department', 'Salary', 'ID']]
x
```

Out[10]:

	Department	Salary	ID
0	Architect Group	100000	1
1	Software Group	80000	2
2	Design Team	50000	3
3	Infrastructure	60000	4

In [ ]: