In [98]:
```python
#Rescale Data
```

In [99]:
```python
# importing libraries
import pandas as pd
import scipy
import numpy
from sklearn.preprocessing import MinMaxScaler
```
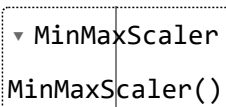
In [100]:
```python
# data set link
df=pd.read_csv("House_Rent.csv")
```

In [101]:
```python
# data parameters
names = ['BHK', 'Rent', 'Size']
```

In [102]:
```python
# preparating of dataframe using the data at given link and defined columns li
dataframe = pandas.read_csv("House_Rent.csv", names = names)
array = dataframe.values
```

In [103]:
```python
# separate array into input and output components
X = array[:,0:8]
Y = array[:,2]
```

In [104]:
```python
# initialising the MinMaxScaler
scaler = MinMaxScaler(feature_range=(0, 1))
scaler.fit(df[names])
```

Out[104]:
```
▼ MinMaxScaler
MinMaxScaler()
```

In [105]:
```python
df[names] = scaler.transform(df[names])
```

In [106]:
```python
numpy.set_printoptions(precision=8)
print(X)
```

```
[['City' 'Furnishing Status' 'Bathroom']
 ['1' '1' '2']
 ['1' '2' '1']
 ...
 ['6' '2' '3']
 ['6' '2' '2']
 ['6' '1' '2']]
```

In [ ]:

In [107]: `#Python code for binarization`

In [108]:
```python
# import libraries
from sklearn.preprocessing import Binarizer
import pandas
import numpy
```

In [109]:
```python
# data set link
df=pd.read_csv("House_Rent.csv")
```

In [110]:
```python
# data parameters
names = ['BHK', 'Rent', 'Size']
```

In [111]:
```python
# preparating of dataframe using the data at given link and defined columns li
dataframe = pandas.read_csv("House_Rent.csv", names = names)
array = dataframe.values
```

In [131]:
```python
# separate array into input and output components
X = array[:, 0:2]
Y = array[:, 2]
binarizer = Binarizer(threshold = 0.0).fit(X[1:])
binaryX = binarizer.transform(X[1:])
```

In [138]:
```python
# separate array into input and output components
X = array[:, 0:7]
Y = array[:, 2]
binarizer = Binarizer(threshold = 0.0).fit(X[1:])
binaryX = binarizer.transform(X[1:])
```

In [141]:
```python
# summarize transformed data
numpy.set_printoptions(precision = 7)
print(binaryX[0:8,0:8])
```

```
[[1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]
 [1. 1. 1.]]
```

In [ ]:

In [142]: `#Standardize Data`

In [149]:
```python
# import libraries
from sklearn.preprocessing import StandardScaler
import pandas
import numpy
```

In [150]:
```python
# data set link
df=pd.read_csv("House_Rent.csv")
```

In [151]:
```python
# data parameters
names = ['BHK', 'Rent', 'Size']
```

In [152]:
```python
# preparating of dataframe using the data at given link and defined columns li
dataframe = pandas.read_csv("House_Rent.csv", names = names)
array = dataframe.values
```

In [155]:
```python
# separate array into input and output components
X = array[:, 0:2]
Y = array[:, 2]
```

In [156]:
```python
scaler = StandardScaler().fit(X[1:])
rescaledX = scaler.transform(X[1:])
```

In [157]:
```python
# summarize transformed data
numpy.set_printoptions(precision = 3)
print(rescaledX[0:5,:])
```

```
[[-1.577 -1.27 ]
 [-1.577  0.787]
 [-1.577  0.787]
 [-1.577 -1.27 ]
 [-1.577 -1.27 ]]
```

In [ ]: