```
Encoding
In [20]: import pandas as pd
In [21]: data1 = pd.read_csv('encoding.csv' , usecols = ['Status'] )
In [22]: data1.head()
Out[22]:
           Status
         0 Spam
            Ham
         2 Spam
         3 Ham
            Ham
        Label Encoding Using Pandas Library Function
In [23]: data1.loc[data1['Status'] == 'Spam', 'Status'] = 0
In [24]: data1.loc[data1['Status'] == 'Ham' , 'Status'] = 1
In [25]: data1.head()
Out[25]:
           Status
In [26]: data1.info()
         <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 10 entries, 0 to 9
        Data columns (total 1 columns):
         Status 10 non-null int64
        dtypes: int64(1)
        memory usage: 160.0 bytes
In [27]: data2 = pd.read_csv('encoding.csv' , usecols = ['State'])
In [28]: data2
Out[28]:
                State
         0 West Bengal
                Bihar
                  UP
                  UP
         5 West Bengal
         6 West Bengal
                Bihar
                Bihar
                  UP
        OneHotEncoder using Pandas Library Functions
In [32]: dummies = pd.get_dummies(data2.State)
In [33]: dummies.head()
Out[33]:
           Bihar UP West Bengal
              0 0
              1 0
                            0
                            0
              0 1
              1 0
                            0
In [44]: onehotencoder = pd.concat([data2,dummies] , axis = 'columns')
In [45]: onehotencoder
Out[45]:
                State Bihar UP West Bengal
         0 West Bengal
                Bihar
                  UP
         3
                  UP
                        0 1
                Bihar
         5 West Bengal
         6 West Bengal
                Bihar
                        1 0
                                     0
                Bihar
                  UP
         Dummy Variable Trap
In [46]: onehotencoder.drop(['West Bengal', 'State'] , axis = 1 , inplace = True)
In [47]: onehotencoder
Out[47]:
           Bihar UP
              0 0
              1 0
              0 1
         6 0 0
         9 0 1
```

In []: