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In [1]: import pandas as pd
         import numpy as np
         from scipy import stats
         from scipy.stats import norm
         from scipy.stats import chi2 contingency
In [2]: # Load the dataset
        data = pd.read_csv('Costomer+OrderForm.csv')
         data
Out[2]:
              Phillippines Indonesia
                                      Malta
                                                India
                Error Free Error Free
           0
                                    Defective Error Free
            1
                Error Free Error Free
                                             Defective
           2
                Error Free
                          Defective Defective Error Free
            3
                Error Free Error Free Error Free
                Error Free Error Free
                                   Defective Error Free
           4
           ...
                                        ...
          295
                Error Free Error Free Error Free
          296
                Error Free Error Free Error Free
          297
                Error Free Error Free Defective Error Free
          298
                Error Free Error Free Error Free
          299
                Error Free Defective Defective Error Free
         300 rows × 4 columns
In [3]: data.Phillippines.value_counts()
Out[3]: Error Free
                        271
                        29
         Defective
         Name: Phillippines, dtype: int64
In [4]: data.Indonesia.value_counts()
Out[4]: Error Free
                        267
         Defective
                        33
         Name: Indonesia, dtype: int64
In [5]: data.Malta.value_counts()
Out[5]: Error Free
                        269
         Defective
                         31
         Name: Malta, dtype: int64
```

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In [6]: data.India.value_counts()
Out[6]: Error Free
                      280
        Defective
                       20
        Name: India, dtype: int64
In [7]: # Make a contingency table
        obs = np.array([[271,267,269,280],[29,33,31,20]])
        obs
Out[7]: array([[271, 267, 269, 280],
                [ 29, 33, 31, 20]])
In [8]: # Chi2 contengency independence test
        chi2_contingency(obs) # o/p is (Chi2 stats value, p_value, df, expected obsvation
Out[8]: (3.858960685820355,
         0.2771020991233135,
         array([[271.75, 271.75, 271.75, 271.75],
                [ 28.25, 28.25, 28.25, 28.25]]))
In [9]: # Compare p_value with \alpha = 0.05
In [ ]:
```