```
In [1]:
          import numpy as np
         import pandas as pd
         import scipy
          from scipy import stats
          from scipy.stats import chi2 contingency
In [2]:
         Data set = pd.read csv("Costomer+OrderForm.csv")
In [3]:
         Data set.shape
        (300, 4)
Out[3]:
In [4]:
         Data set.head(10)
                                      Malta
                                                 India
Out[4]:
            Phillippines Indonesia
               Error Free
                          Error Free Defective Error Free
         1
               Error Free
                          Error Free Error Free Defective
         2
               Error Free
                          Defective Defective Error Free
         3
               Error Free
                          Error Free Error Free
         4
               Error Free
                          Error Free Defective Error Free
                          Error Free Error Free
         5
               Error Free
                          Defective Error Free Error Free
         6
               Error Free
         7
               Error Free
                          Error Free Error Free
         8
               Error Free
                          Error Free Error Free
         9
               Error Free
                          Error Free Error Free Error Free
In [5]:
         Data set.tail(10)
Out[5]:
              Phillippines Indonesia
                                         Malta
                                                    India
         290
                 Error Free
                            Error Free Error Free
         291
                 Defective
                            Error Free Error Free
         292
                 Error Free
                            Defective Error Free Error Free
         293
                 Error Free
                            Error Free Error Free
         294
                 Error Free
                            Defective Error Free Error Free
         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
In [6]:
```

Phillinnines
Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js

Phillippines = Data set["Phillippines"].value counts()

```
Out[6]: Error Free
                        271
                         29
         Defective
         Name: Phillippines, dtype: int64
 In [7]:
          Indonesia = Data_set["Indonesia"].value_counts()
          Indonesia
         Error Free
                        267
 Out[7]:
         Defective
                         33
         Name: Indonesia, dtype: int64
 In [8]:
          Malta = Data set["Malta"].value counts()
          Malta
 Out[8]: Error Free
                        269
         Defective
                         31
         Name: Malta, dtype: int64
 In [9]:
          India = Data set["India"].value counts()
          India
 Out[9]: Error Free
                        280
         Defective
                         20
         Name: India, dtype: int64
In [10]:
          Data set2 = [[271,29],[267,33],[269,31],[280,20]]
In [11]:
          stats,p,dof, expected = chi2_contingency(Data_set2)
In [12]:
          stats
         3.8589606858203545
Out[12]:
In [13]:
         0.2771020991233144
Out[13]:
In [14]:
          dof
Out[14]: 3
 In [ ]:
```