```
import pandas as pd
          import numpy as np
          from scipy import stats
In [3]:
          cust_data=pd.read_csv('Costomer+OrderForm.csv')
          cust_data.head()
            Phillippines Indonesia
                                   Malta
                                             India
Out[3]:
             Error Free Error Free Defective Error Free
             Error Free Error Free
             Error Free Defective Defective Error Free
             Error Free Error Free Error Free
             Error Free Error Free Defective Error Free
        H0 == The defective % does not varies by centre H1 == The defective % does varies by centre
        chi-squared Test
In [4]:
          stats.chi2_contingency([cust_data['Phillippines'].value_counts(), cust_data['Indonesia'].value_counts(), cust_data['Malta'].value_counts(), cust_data['India']
          0.2771020991233144,
```

```
Out[4]: (3.8589606858203545,
         array([[271.75, 28.25],
                [271.75, 28.25],
                [271.75, 28.25],
                [271.75, 28.25]]))
```

Here p-value is greater than 0.05. so, null hypothesis is accepted.. The defective % does not varies by centre..

```
In [ ]:
```