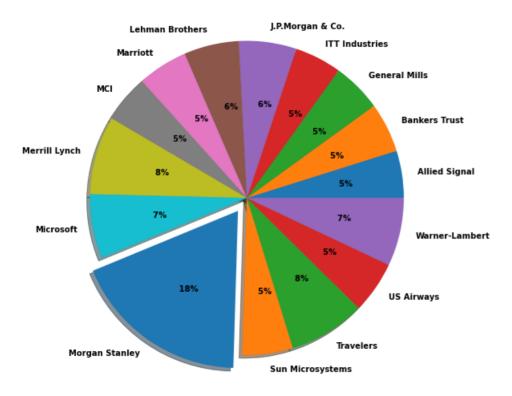
```
In [3]: import pandas as pd
        import numpy as no
        import seaborn as sns
        import statsmodels.api as smf
        from matplotlib import pyplot as plt
        from scipy import stats
        from scipy.stats import norm
        import warnings
        warnings.filterwarnings('ignore')
```

Q.1 Answer: ¶

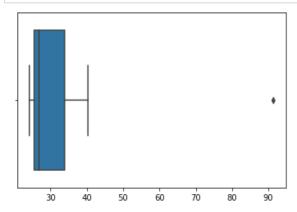
```
In [4]: | a = ('Allied Signal', 'Bankers Trust', 'General Mills', 'ITT Industries', 'J.P.Morgan & Co.', 'Lehman Brothers', 'Marriott',
            'MCI', 'Merrill Lynch', 'Microsoft', 'Morgan Stanley', 'Sun Microsystems', 'Travelers', 'US Airways', 'Warner-Lambert')
        print(a)
        ('Allied Signal', 'Bankers Trust', 'General Mills', 'ITT Industries', 'J.P.Morgan & Co.', 'Lehman Brothers', 'Marriott', 'MCI', 'Merrill Lync
        h', 'Microsoft', 'Morgan Stanley', 'Sun Microsystems', 'Travelers', 'US Airways', 'Warner-Lambert')
In [5]: b = [24.23,25.53,25.41,24.14,29.62,28.25,25.81,24.39,40.26,32.95,91.36,25.99,39.42,26.71,35.00]
        print(b)
        [24.23, 25.53, 25.41, 24.14, 29.62, 28.25, 25.81, 24.39, 40.26, 32.95, 91.36, 25.99, 39.42, 26.71, 35.0]
```

```
In [6]: company details = pd.DataFrame(data={'Name of Company': a.
                                                    'Measure X (%)' : b})
         company details
Out[6]:
              Name of Company Measure X (%)
           0
                                       24.23
                    Allied Signal
            1
                   Bankers Trust
                                       25.53
            2
                   General Mills
                                       25.41
            3
                   ITT Industries
                                       24.14
                J.P.Morgan & Co.
                                       29.62
                Lehman Brothers
                                       28.25
            6
                        Marriott
                                       25.81
           7
                           MCI
                                       24.39
            8
                    Merrill Lynch
                                       40.26
            9
                       Microsoft
                                       32.95
          10
                 Morgan Stanley
                                       91.36
               Sun Microsystems
                                       25.99
          12
                      Travelers
                                       39.42
          13
                     US Airways
                                       26.71
          14
                 Warner-Lambert
                                       35.00
In [7]: company details.describe() #Mean: 33.271333, Standard Deviation: 16.955401
Out[7]:
                 Measure X (%)
                     15.000000
          count
                     33.271333
           mean
            std
                     16.945401
            min
                     24.140000
            25%
                     25.470000
            50%
                     26.710000
            75%
                     33.975000
            max
                     91.360000
In [8]: company details.var() #Variance:287.146612
Out[8]: Measure X (%)
                             287.146612
         dtype: float64
```

Company Names according to the X



In [11]: sns.boxplot(b) # Here we have a Box Plot to find outliars in my dataset.
plt.show()



In above dataset, Morgan Stanley company % is far more away from median.