**Meaning of Correlation and Covariance using Excel – Example 4.21 and 4.22:**

***Example 4.21:***

Data:

A table of numbers with numbers

Description automatically generated

Calculate Correlation:

A screenshot of a computer

Description automatically generated

Calculate Covariance:

A screenshot of a computer

Description automatically generated

The Result:

A table with numbers and text

Description automatically generated

***Example 4.22:***

Data:

A table with numbers and text

Description automatically generated

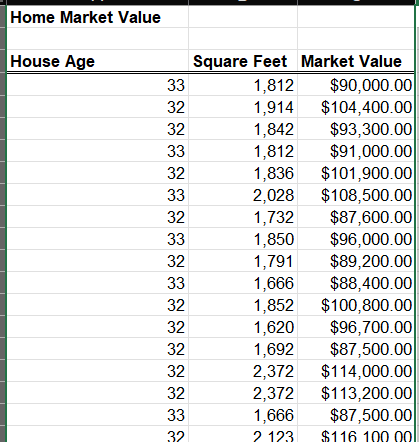
The result:

A screenshot of a table

Description automatically generated

**Meaning of Ouliers using Excel – Example 4.23:**

Data:



Calculate Standard Deviation and Mean:

A screenshot of a computer

Description automatically generated

The result:

None of the z-scores for Square Feet or Market Value exceed 3

A table with numbers and symbols

Description automatically generated

***Get Meaning of Outliers using Python – Example 4.23***

Read data:

A screenshot of a computer

Description automatically generated

Use describe() function to see statistics:A screenshot of a computer

Description automatically generatedc:

Calculate Q1, Q3, lower limit, upper limit:

A screenshot of a computer

Description automatically generated

The result:

There are no ouliers:

A screenshot of a computer code

Description automatically generated

***Get Meaning of Correlation and Covariance using Python – Example 4.21 and 4.22:***

A screenshot of a computer

Description automatically generated

Read file 421.csv:

A screenshot of a graph

Description automatically generated

Calculate Covariance using cov() function and Correlation using corr() function:

A screenshot of a graph

Description automatically generated

Read file 421.csv:

A screenshot of a computer

Description automatically generated

Calculate Covariance using cov() function and Correlation using corr() function:

A screenshot of a computer

Description automatically generated