**import** numpy **as** np

**import** pandas **as** pd

In [2]:

df**=**pd**.**read\_csv('C:/Users/student/Documents/live1.csv')

In [3]:

df

Out[3]:

|  | **Area** | **Item** | **Element** | **Year** | **Unit** | **Value** |
| --- | --- | --- | --- | --- | --- | --- |
| **0** | Afghanistan | Asses | Stocks | 1961 | Head | 1300000.0 |
| **1** | Afghanistan | Asses | Stocks | 1962 | Head | 851850.0 |
| **2** | Afghanistan | Asses | Stocks | 1963 | Head | 1001112.0 |
| **3** | Afghanistan | Asses | Stocks | 1964 | Head | 1150000.0 |
| **4** | Afghanistan | Asses | Stocks | 1965 | Head | 1300000.0 |
| **...** | ... | ... | ... | ... | ... | ... |
| **122453** | Net Food Importing Developing Countries | Sheep | Stocks | 2016 | Head | 364166482.0 |
| **122454** | Net Food Importing Developing Countries | Sheep | Stocks | 2017 | Head | 371357850.0 |
| **122455** | Net Food Importing Developing Countries | Sheep | Stocks | 2018 | Head | 377303293.0 |
| **122456** | Net Food Importing Developing Countries | Sheep | Stocks | 2019 | Head | 397970957.0 |
| **122457** | Net Food Importing Developing Countries | Sheep | Stocks | 2020 | Head | 406555086.0 |

122458 rows × 6 columns

In [4]:

df**.**head()

Out[4]:

|  | **Area** | **Item** | **Element** | **Year** | **Unit** | **Value** |
| --- | --- | --- | --- | --- | --- | --- |
| **0** | Afghanistan | Asses | Stocks | 1961 | Head | 1300000.0 |
| **1** | Afghanistan | Asses | Stocks | 1962 | Head | 851850.0 |
| **2** | Afghanistan | Asses | Stocks | 1963 | Head | 1001112.0 |
| **3** | Afghanistan | Asses | Stocks | 1964 | Head | 1150000.0 |
| **4** | Afghanistan | Asses | Stocks | 1965 | Head | 1300000.0 |

In [5]:

df**.**tail()

Out[5]:

|  | **Area** | **Item** | **Element** | **Year** | **Unit** | **Value** |
| --- | --- | --- | --- | --- | --- | --- |
| **122453** | Net Food Importing Developing Countries | Sheep | Stocks | 2016 | Head | 364166482.0 |
| **122454** | Net Food Importing Developing Countries | Sheep | Stocks | 2017 | Head | 371357850.0 |
| **122455** | Net Food Importing Developing Countries | Sheep | Stocks | 2018 | Head | 377303293.0 |
| **122456** | Net Food Importing Developing Countries | Sheep | Stocks | 2019 | Head | 397970957.0 |
| **122457** | Net Food Importing Developing Countries | Sheep | Stocks | 2020 | Head | 406555086.0 |

In [6]:

df**.**describe()

Out[6]:

|  | **Year** | **Value** |
| --- | --- | --- |
| **count** | 122458.000000 | 1.201940e+05 |
| **mean** | 1991.376439 | 1.035597e+07 |
| **std** | 17.260431 | 5.869386e+07 |
| **min** | 1961.000000 | 0.000000e+00 |
| **25%** | 1976.000000 | 5.300000e+03 |
| **50%** | 1992.000000 | 1.021735e+05 |
| **75%** | 2006.000000 | 1.561571e+06 |
| **max** | 2020.000000 | 1.525939e+09 |

In [7]:

df**.**corr()

Out[7]:

|  | **Year** | **Value** |
| --- | --- | --- |
| **Year** | 1.000000 | 0.023921 |
| **Value** | 0.023921 | 1.000000 |

In [10]:

df**.**loc[[0,7]]

Out[10]:

|  | **Area** | **Item** | **Element** | **Year** | **Unit** | **Value** |
| --- | --- | --- | --- | --- | --- | --- |
| **0** | Afghanistan | Asses | Stocks | 1961 | Head | 1300000.0 |
| **7** | Afghanistan | Asses | Stocks | 1968 | Head | 1328000.0 |

In [11]:

df**.**iloc[:10,:3]

Out[11]:

|  | **Area** | **Item** | **Element** |
| --- | --- | --- | --- |
| **0** | Afghanistan | Asses | Stocks |
| **1** | Afghanistan | Asses | Stocks |
| **2** | Afghanistan | Asses | Stocks |
| **3** | Afghanistan | Asses | Stocks |
| **4** | Afghanistan | Asses | Stocks |
| **5** | Afghanistan | Asses | Stocks |
| **6** | Afghanistan | Asses | Stocks |
| **7** | Afghanistan | Asses | Stocks |
| **8** | Afghanistan | Asses | Stocks |
| **9** | Afghanistan | Asses | Stocks |