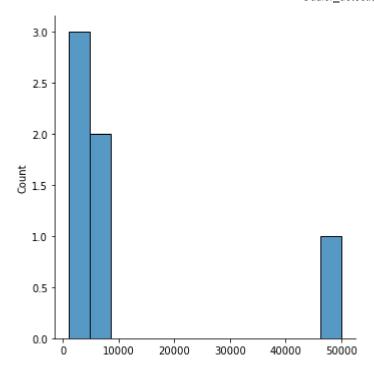
```
In [1]:
          import numpy as np
          array = np.array([10,20,30,40,50,60,70])
 In [2]:
 In [3]:
          array
          array([10, 20, 30, 40, 50, 60, 70])
 Out[3]:
 In [4]:
          array.mean()
         40.0
 Out[4]:
 In [5]:
          np.percentile(array, 25)
          25.0
 Out[5]:
 In [6]:
          np.percentile(array, 50)
         40.0
 Out[6]:
 In [7]:
          np.percentile(array, 75)
         55.0
 Out[7]:
 In [8]:
          np.percentile(array, 100)
         70.0
 Out[8]:
 In [9]:
          ### Outlier Detection
          def outDetection(array):
            sorted(array)
            Q1,Q3 = np.percentile(array, [25,75])
            IQR = Q3-Q1
            lr = Q1 - (1.5 * IQR)
            ur = Q3 + (1.5 * IQR)
            return lr,ur
In [10]:
          new_array = np.array([[1000],[2000],[6000],[4999],[2399],[50000],[5000000]])
In [11]:
          new_array
                     1000],
          array([[
Out[11]:
                     2000],
                     6000],
                     4999],
                     2399],
                    50000],
                 [5000000]])
In [12]:
          lr,ur = outDetection(new_array)
          1r,ur
In [13]:
```

```
(-36501.25, 66700.75)
Out[13]:
          # Visualizing data
In [22]:
          import seaborn as sns
          %matplotlib inline
          sns.displot(new_array)
          <seaborn.axisgrid.FacetGrid at 0x2e7349d8a90>
Out[22]:
            5
            4
          Count
                                                              ____0
            2
            1
            0
                                         ġ.
                                 ż
                                                          5
                                                         1e6
In [24]:
          updated_array = new_array[(new_array>lr) & (new_array<ur)]</pre>
          updated array
          array([ 1000,
                          2000,
                                 6000,
                                        4999,
                                                2399, 50000])
Out[24]:
          sns.displot(updated array)
In [28]:
          <seaborn.axisgrid.FacetGrid at 0x2e735d61040>
Out[28]:
```



```
In [30]: lr1,ur1 = outDetection(updated_array)
```

In [31]: lr1,ur1

Out[31]: (-3375.25, 11224.75)

In [34]: final\_array = updated\_array[(updated\_array>lr1) & (updated\_array<ur1)]
final\_array</pre>

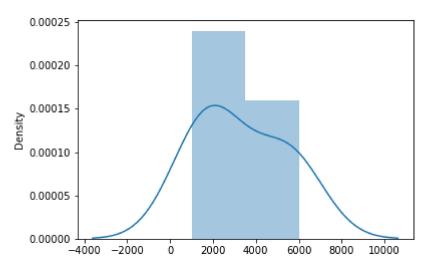
Out[34]: array([1000, 2000, 6000, 4999, 2399])

In [35]: sns.distplot(final\_array)

C:\Users\Swati\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarni ng: `distplot` is a deprecated function and will be removed in a future version. Plea se adapt your code to use either `displot` (a figure-level function with similar flex ibility) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)

Out[35]: <AxesSubplot:ylabel='Density'>



In [ ]: