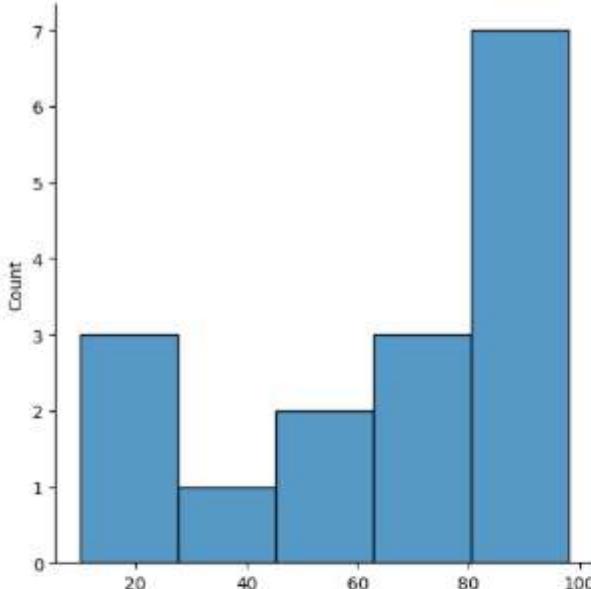


```
[1]: import numpy as np  
array=np.random.randint(1,100,16)  
array  
  
[1]: array([86, 82, 86, 95, 11, 68, 58, 98, 77, 73, 98, 66, 42, 81, 18, 27],  
         dtype=int32)  
  
[2]: array.mean()  
  
[2]: np.float64(65.125)  
  
[3]: np.percentile(array,25)  
  
[3]: np.float64(54.0)  
  
[4]: np.percentile(array,50)  
  
[4]: np.float64(75.0)  
  
[5]: np.percentile(array,75)  
  
[5]: np.float64(86.0)  
  
[6]: np.percentile(array,100)  
  
[6]: np.float64(98.0)  
  
[8]: 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  
lr,ur=outDetection(array)  
lr,ur  
  
[8]: (np.float64(6.0), np.float64(134.0))  
  
[9]: import seaborn as sns  
%matplotlib inline  
sns.displot(array)  
  
[9]: <seaborn.axisgrid.FacetGrid at 0x1d78b9c6900>
```

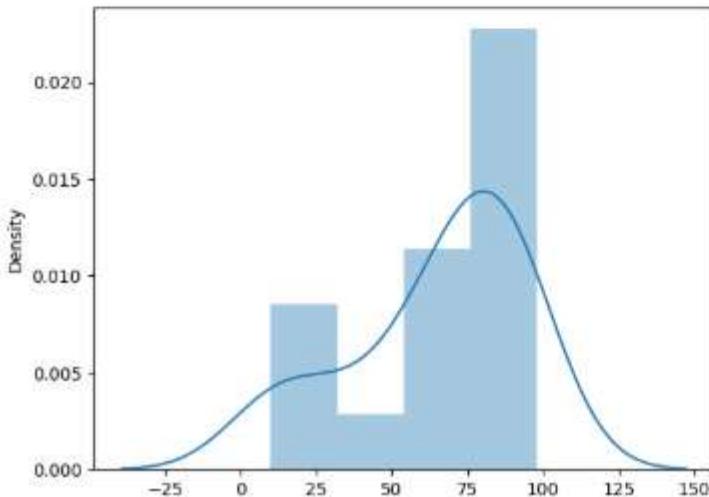


```
[18]: sns.distplot(array)
```



```
C:\Users\mivet\AppData\Local\Temp\ipykernel_24788\2799961108.py:1: UserWarning:  
  'distplot' is a deprecated function and will be removed in seaborn v0.14.0.  
Please adapt your code to use either 'displot' (a figure-level function with  
similar flexibility) or 'histplot' (an axes-level function for histograms).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/dc4147ed2974457ad6372750bbc5751
```

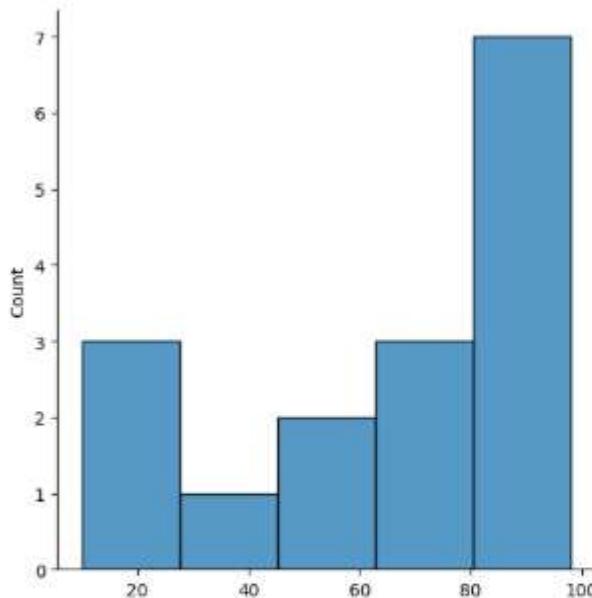
```
    sns.distplot(array)  
[18]: <Axes: ylabel='Density'>
```



```
[11]: array([86, 82, 86, 95, 11, 68, 58, 98, 77, 73, 98, 66, 42, 81, 18, 27],  
      dtype=int32)
```

```
[12]: sns.distplot(new_array)
```

```
[12]: <seaborn.axisgrid.FacetGrid at 0x1d790bb1f90>
```



```
[13]: lr1,url1=outDetection(new_array)  
lr1,url1
```

```
[13]: (np.float64(6.0), np.float64(134.0))
```

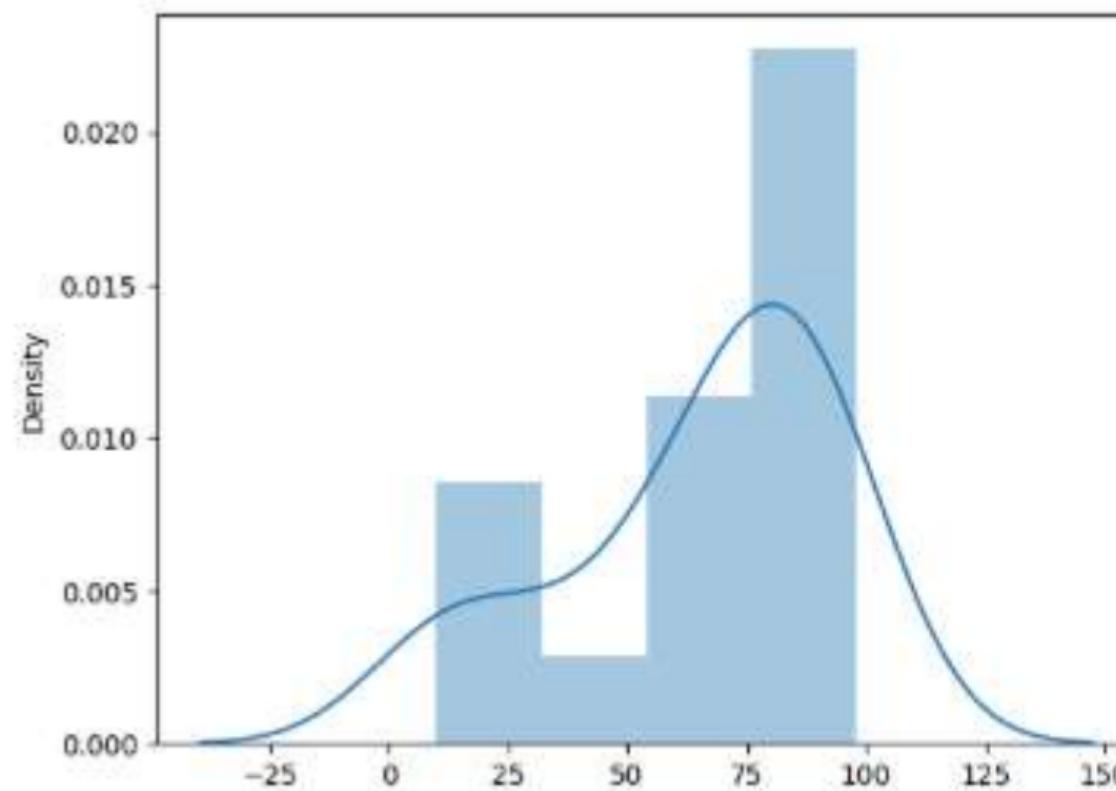
```
[14]: final_array=new_array[(new_array>lr1) & (new_array<url1)]  
final_array
```

```
[14]: array([86, 82, 86, 95, 11, 68, 58, 98, 77, 73, 98, 66, 42, 81, 18, 27],  
      dtype=int32)
```

```
[15]: sns.distplot(final_array)
```

```
[15]:
```

```
<Axes: ylabel='Density'>
```



```
[1]:
```