```
In [ ]: import numpy as np
       import pandas as pd
       from matplotlib import pyplot as plt
       from sklearn.cluster import DBSCAN
In [ ]: # data
       np.random.seed(30)
       x = np.random.randint(1,60,20)
       y =np.random.randint(1,60,20)
       data = list(zip(x,y))
       print(data)
       plt.scatter(x,y)
      [(38, 19), (38, 53), (46, 53), (46, 39), (53, 13), (13, 17), (24, 7), (3, 28), (54, 47), (18, 46), (47, 1), (4, 12), (42, 16),
      (8, 24), (56, 37), (2, 14), (50, 51), (46, 34), (36, 56), (19, 29)]
Out[ ]: <matplotlib.collections.PathCollection at 0x20176993490>
      50
       40
       30
       20
       10
        0
                    10
                               20
                                         30
                                                    40
                                                              50
In [ ]: db = DBSCAN(eps=17, min_samples=5).fit(data)
In [ ]: db.labels_
0, 0, 1], dtype=int64)
In [ ]: db.core_sample_indices_
Out[]: array([1, 2, 3, 5, 7, 8, 11, 13, 14, 15, 16, 17], dtype=int64)
In [ ]:
                        , 18.71428571, 43.5
Out[]: array([12.25
                                               , 51.66666667])
In [ ]: plt.scatter(x,y,c=db.labels_)
```

Out[]: <matplotlib.collections.PathCollection at 0x20102f55910>

