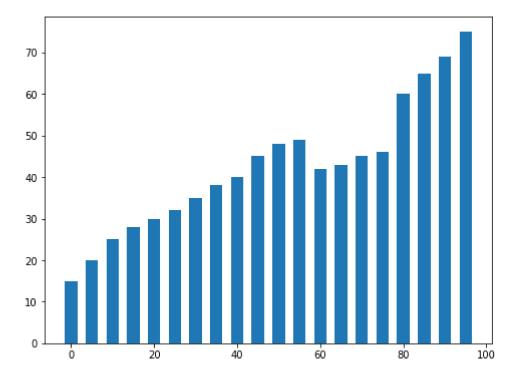
```
In [2]:  import numpy as np
  import pandas as pd
  import matplotlib.pyplot as plt
  from scipy import stats as st
  import seaborn as sb
```

```
In [3]:
          | nomreh = [15,20,25,28,30,32,35,38,40,45,48,49,42,43,45,46,60,65,69,75]
 In [4]:
             len(nomreh)
    Out[4]: 20
          fig = plt.figure(figsize=(8,6))
In [10]:
             plt.hist(nomreh, bins=10)
   Out[10]: (array([2., 1., 3., 2., 3., 5., 0., 1., 1., 2.]),
              array([15., 21., 27., 33., 39., 45., 51., 57., 63., 69., 75.]),
              <BarContainer object of 10 artists>)
              5
              3
              2
              1
                      20
                               30
                                        40
                                                                   70
                                                 50
                                                           60
```

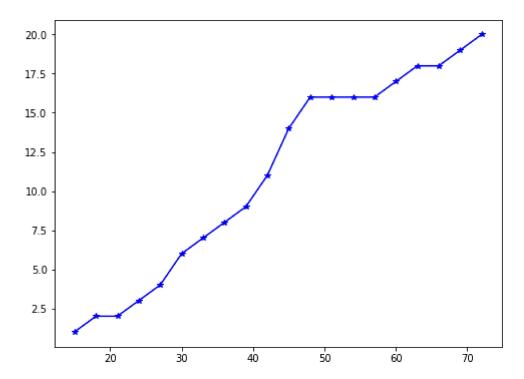
In [11]: ▶ np.mean (nomreh)

Out[11]: 42.5

Out[16]: <BarContainer object of 20 artists>



Out[17]: [<matplotlib.lines.Line2D at 0x222314ff6a0>]

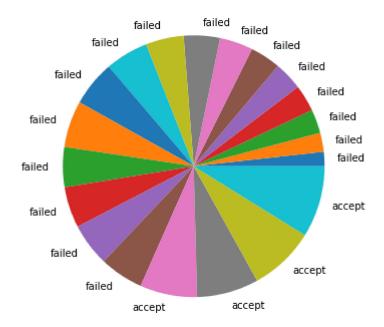


The score of 75 is among scattered data

Question 3

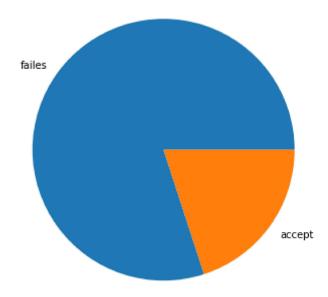
```
In [18]: Note = []
a = "accept"
b = "failed"
c = str(a)
d = str(b)
for i in nomreh:
    if i<60:
        vote.append(d)
    elif i>=60:
        vote.append(c)

fig = plt.figure(figsize=(8,6))
    plt.pie(nomreh,labels = vote)
    plt.show()
```



In [19]: ▶ print(vote)

['failed', 'failed', 'accept', 'accept']



```
In [148]: nomreh_2 = [100,98,97,95,93,90,88,85,83,82,81,79,77,75,72,69,68,22,17,2]
```

```
In [149]:

    | fig = plt.figure(figsize=(8,6))
            plt.hist(nomreh_2, bins=10)
   Out[149]: (array([1., 1., 1., 0., 0., 0., 2., 4., 6., 5.]),
            array([ 2., 11.8, 21.6, 31.4, 41.2, 51., 60.8, 70.6, 80.4,
                   90.2, 100. ]),
            <BarContainer object of 10 artists>)
            6
            5
            3
            2
            1
                        20
                                 40
                                                   80
                                          60
                                                           100
Out[150]: -1.560231750404717
In [151]:
        np.mean (nomreh 2)
   Out[151]: 73.65
Out[152]: 81.5
Out[153]: ModeResult(mode=array([2]), count=array([1]))
        ▶ st.mode(nomreh_2)
In [155]:
   Out[155]: ModeResult(mode=array([2]), count=array([1]))
```

```
In [156]:  normal = pd.read_excel('normal.xlsx')
normal
```

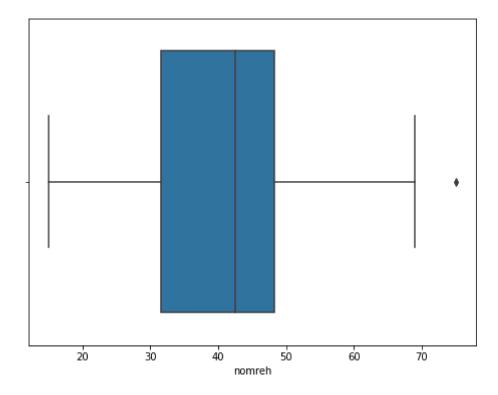
Out[156]:

	nomreh
0	15
1	20
2	25
3	28
4	30
5	32
6	35
7	38
8	40
9	45
10	48
11	49
12	42
13	43
14	45
15	46
16	60
17	65
18	69
19	75

Out[159]:

	nomreh
0	100
1	98
2	97
3	95
4	93
5	90
6	88
7	85
8	83
9	82
10	81
11	79
12	77
13	75
14	72
15	69
16	68
17	12
18	2
19	1

Out[163]: <AxesSubplot:xlabel='nomreh'>



```
In [160]:  nomreh_cholegy = cholegy['nomreh']
```

Out[162]: <AxesSubplot:xlabel='nomreh'>

