```
import pandas as pd
from pandas import read_csv
import numpy as np
import matplotlib.pyplot as plt
from google.colab import drive
drive.mount("/content/drive")
     Mounted at /content/drive
data=read_csv("/content/drive/My Drive/dataset/HR.csv")
print(data)
         umur jenis kelamin pendidikan lama kerja
                                                        gaji
     0
                          р
                                    S1
                                                 1
                                                     5000000
     1
          24
                                    D3
                                                     4800000
                                                 1
                          р
                                                     6000000
     2
          26
                                    S1
                                                 2
     3
           27
                          1
                                    S1
                                                 1
                                                     5500000
           30
                                    S1
                                                 6
                                                     7000000
                          р
     5
                                                     6000000
           25
                                   D3
                          1
                                                 1
                                                    18000000
     6
           32
                          1
                                    S2
                                                 3
          23
                                   D3
                                                     4000000
                                                    65000000
     8
           27
                                                 4
                         1
                                    S1
     9
                                                     7000000
          28
                                    S1
                          р
     10
          31
                          р
                                    S1
                                                     9000000
     11
          32
                                   D3
                                                 4
                                                     9200000
                                                7 10000000
     12
          35
                          1
                                   S1
                                                 4
                                                     8000000
     13
          29
                                    S1
     14
           29
                                    D3
                                                     8200000
                                                 3 12000000
     15
          30
                          1
                                   S2
                                                    7000000
     16
          25
                                    S1
                                                 1
     17
           29
                                    S1
                                                    75000000
     18
          31
                                    D3
                                                    98000000
data['umur']
     0
           25
     1
           24
     2
           26
           27
     3
     4
           30
     5
          25
     6
          32
          23
     8
          27
     9
          28
     10
          31
     11
          32
     12
          35
     13
           29
          29
     14
     15
           30
     16
           25
     17
          29
     18
          31
     Name: umur, dtype: int64
data['lama kerja']
     0
           1
     1
           2
     3
          1
     4
          6
     6
          3
          1
     8
     9
     10
          6
     11
          7
     12
     13
     14
          5
     15
          3
     16
           1
     17
```

```
18
     Name: lama kerja, dtype: int64
data [ˈgajiˈ]
     0
            5000000
            4800000
6000000
     1
     2
     3
            5500000
     4
            7000000
     5
            6000000
     6
7
            18000000
            4000000
     8
9
           65000000
7000000
     10
            9000000
     11
            9200000
           10000000
     12
            8000000
     13
     14
            8200000
           1200000
7000000
     15
     16
     17
           75000000
     18
           98000000
     Name: gaji, dtype: int64
data ['pendidikan']
           S1
     1
           D3
     2
           S1
     3
           S1
     4
           S1
     5
           D3
           S2
           D3
     8
           S1
           S1
     10
           S1
    11
12
           D3
           S1
     13
           S1
     14
           D3
     15
           S2
     16
           S1
     17
     18
           D3
     Name: pendidikan, dtype: object
```

data.describe()

```
umur lama kerja
                                                    \blacksquare
                                            gaji
     count 19.000000
                         19.000000 1.900000e+01
             28.315789
                          3.473684 1.919474e+07
      mean
              3.180717
                          2.091475 2.751954e+07
       std
      min
             23.000000
                          1.000000 4.000000e+06
      25%
             25.500000
                          1.000000 6.000000e+06
      50%
             29.000000
                          4.000000 8.000000e+06
             30.500000
                          5.000000 1.100000e+07
      max
             35.000000
                          7.000000 9.800000e+07
data.describe(include=['object'])
              jenis kelamin pendidikan
                                           \overline{\mathbf{H}}
                         19
      count
                                      19
     unique
                          2
                                       3
                                     S1
       top
                                      11
       freq
                         30
                   20
                                                                                le8
data['jenis kelamin'].value_counts()
          10
     Name: jenis kelamin, dtype: int64
data['pendidikan'].value_counts()
     S1
           11
     D3
            6
     S2
     Name: pendidikan, dtype: int64
umur, lamakerja = data['umur'],data['lama kerja']
plt.boxplot([umur, lamakerja], labels=['umur','lama kerja'], showmeans=True);
      35
      30
      25
      20
      15
      10
       5
```

Inferntal

0

population = np.random.randint(20,30,1000)

umur

lama kerja

```
np.random.seed(10)
estimates=[]
for x in range(200):
    sample = np.random.choice(a=population, size=100)
    estimates.append (sample.mean())

np.mean(population)
    24.458

pd.DataFrame(estimates).plot(kind="density")
```

