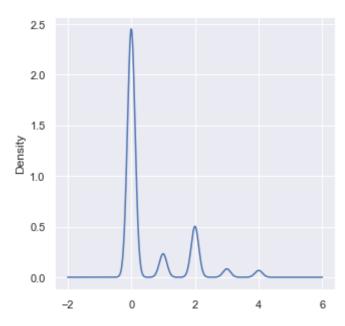
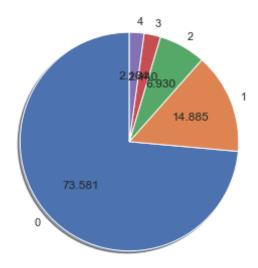
```
In [1]:
         import pandas as pd
         import seaborn as sns
         sns.set(color_codes=True)
In [2]:
         from matplotlib import pyplot as plt
In [3]:
         eye = pd.read_csv('test.csv')
In [4]:
         eye.head()
            image level
Out[4]:
        0 10_left
        1 10_right
        2 13_left
                    0
        3 13_right
        4 15_left
In [5]:
         eye.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 35126 entries, 0 to 35125
        Data columns (total 2 columns):
             Column Non-Null Count Dtype
                    35126 non-null object
             image
             level
                    35126 non-null int64
        dtypes: int64(1), object(1)
        memory usage: 549.0+ KB
In [6]:
         plt.hist(eye['level'])
```

```
Out[6]: (array([25810., 0., 2443., 0., 5292., 0., 873.,
                   0., 708.]),
        array([0., 0.4, 0.8, 1.2, 1.6, 2., 2.4, 2.8, 3.2, 3.6, 4.]),
        <BarContainer object of 10 artists>)
        25000
        20000
        15000
        10000
         5000
           0
                  0.5
                           1.5
                                2.0
In [7]:
        plt.figure(figsize=(5,5))
        eye['level'].plot(kind='density')
Out[7]: <AxesSubplot:ylabel='Density'>
```



```
In [8]:
         eyel=eye.sample(frac=0.35)
In [9]:
         plt.figure(figsize=(5,5))
         plt.pie(eye1['level'].value_counts(), startangle=90, autopct='%.3f',
                labels=['0','1','2','3','4'],shadow=True)
Out[9]: ([<matplotlib.patches.Wedge at 0x25c225369a0>,
          <matplotlib.patches.Wedge at 0x25c22544310>,
          <matplotlib.patches.Wedge at 0x25c22544c10>,
          <matplotlib.patches.Wedge at 0x25c22552520>,
          <matplotlib.patches.Wedge at 0x25c22552df0>],
         [Text(-0.8117167814627662, -0.7423717846818588, '0'),
          Text(1.022161101152315, 0.40643164651769775, '1'),
          Text(0.5341015933288173, 0.961631680012477, '2'),
          Text(0.23211097925976887, 1.075232297369769, '3'),
          Text(0.07471295044303035, 1.0974597828786699, '4')],
         [Text(-0.4427546080705997, -0.40493006437192297, '73.581'),
          Text(0.5575424188103536, 0.22168998900965328, '14.885'),
          Text(0.29132814181571853, 0.5245263709158965, '6.930'),
```

Text(0.12660598868714665, 0.5864903440198739, '2.440'), Text(0.0407525184234711, 0.598614427024729, '2.164')])



In []: