In [1]:

```
import pandas as pd
```

In [10]:

```
df = pd.DataFrame(
{"a" : [4, 5, 6, 4],
"b" : [7, 8, 9, 9],
"c" : [10, 11, 12, 10]},
index = [1, 2, 3, 4])
df
```

Out[10]:

	a	b	c
1	4	7	10
2	5	8	11
3	6	9	12
4	4	9	10

In [4]:

```
df["a"]
```

Out[4]:

```
1    4
2    5
3    6
Name: a, dtype: int64
```

In [5]:

```
df[["a"]]
```

Out[5]:

	a
1	4
2	5
3	6

In [7]:

```
df[df["a"] > 4]
```

Out[7]:

	a	b	c
2	5	8	11
3	6	9	12

In [8]:

```
df[["a", "b"]]
```

Out[8]:

	a	b
1	4	7
2	5	8
3	6	9

In [11]:

```
df["a"].value_counts()
```

Out[11]:

```
4    2
5    1
6    1
Name: a, dtype: int64
```

In [12]:

```
len(df)
```

Out[12]:

```
4
```

In [16]:

```
df.sort_values("a", ascending=False)
```

Out[16]:

	a	b	c
3	6	9	12
2	5	8	11
1	4	7	10
4	4	9	10

In [19]:

```
df = df.drop(["c"], axis=1)
df
```

Out[19]:

	a	b
1	4	7
2	5	8
3	6	9
4	4	9

In [21]:

```
df.groupby(["a"])["b"].agg(["mean", "sum", "count"])
```

Out[21]:

	mean	sum	count
a			
4	8.0	16	2
5	8.0	8	1
6	9.0	9	1

In [22]:

```
df.groupby(["a"])["b"].describe()
```

Out[22]:

	count	mean	std	min	25%	50%	75%	max
a								
4	2.0	8.0	1.414214	7.0	7.5	8.0	8.5	9.0
5	1.0	8.0	NaN	8.0	8.0	8.0	8.0	8.0
6	1.0	9.0	NaN	9.0	9.0	9.0	9.0	9.0

In [25]:

```
df
```

Out[25]:

	a	b
1	4	7
2	5	8
3	6	9
4	4	9

In [27]:

```
1 pd.pivot_table(df, index="a", values="b", aggfunc="sum")
```

Out[27]:

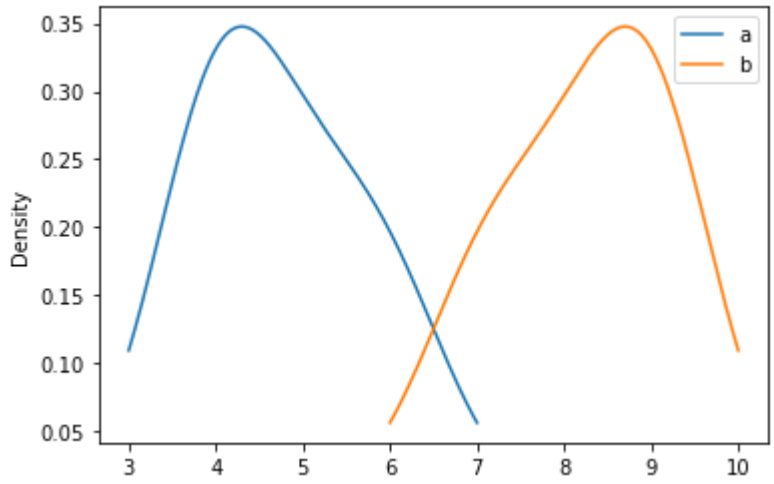
a	b
4	16
5	8
6	9

In [37]:

```
1 df.plot.density()
```

Out[37]:

<AxesSubplot:ylabel='Density'>



In [ ]:

```
1
```