Basic Visualization Tools

LATEST SUBMISSION GRADE

100%

1. Area plots are unstacked by default. **1 / 1 point**

- True.
- False.

Correct

Correct.

2. The following code uses the artist layer to create a stacked area plot of the data in the *pandas* dataframe, **area_df.** **1 / 1 point**

```
import matplotlib.pyplot as plt

area_df.plot(kind='area', figsize=(20, 10))

plt.title('Plot Title')
plt.ylabel('Vertical Axis Label')
plt.xlabel('Horizontal Axis Label')

plt.show()
```

- True.
- False.

Correct

Correct.

3. The following code will create an unstacked area plot of the data in the *pandas*dataframe, **area_df**, with a transparency value of 0.35? **1 / 1 point**

```
import matplotlib.pyplot as plt

transparency = 0.35
area_df.plot(kind='area', alpha=transparency, figsize=(20, 10))

plt.title('Plot Title')
plt.ylabel('Vertical Axis Label')
plt.xlabel('Horizontal Axis Label')

plt.show()
```

- ○ True.
- ◉ False.

✓ **Correct**

Correct.

4. Given a *pandas* series, **series_data**, which of the following will create a histogram of series_data and align the bin edges with the horizontal tick marks? **1 / 1 point**

- ○
```
count, bin_edges = np.histogram(series_data)
series_data.plot(kind='hist', xticks = count, bin_edges)
```
- ◉
```
count, bin_edges = np.histogram(series_data)
series_data.plot(kind='hist', xticks = bin_edges)
```
- ○
```
 series_data.plot(kind='hist')
```
- ○
```
count, bin_edges = np.histogram(series_data)
series_data.plot(kind='hist', xticks = count)
```
- ○
```
count, bin_edges = np.histogram(series_data)
series_data.plot(type='hist', xticks = bin_edges)
```

✓ **Correct**

Correct.

5. Given a *pandas* dataframe, **question**, which of the following will create a horizontal bar chart of the data in **question**?

```
question.plot(type='bar', rot=90)
```

```
question.plot(kind='bar', orientation='horizontal')
```

```
question.plot(kind='barh')
```

```
question.plot(kind='bar')
```

```
question.plot(kind='bar', type='horizontal')
```

Correct

Correct.