**Basic Visualization Tools**

**TOTAL POINTS 5**

1.Question 1

Area plots are unstacked by default.



True.



False.

1 point

2.Question 2

Which of the following codes uses the artist layer to create a stacked area plot of the data in the *pandas*dataframe, **area\_df**?





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import matplotlib.pyplot as plt

area\_df.plot(type='area', figsize=(20, 10))

plt.set\_title('Plot Title')

plt.set\_ylabel('Vertical Axis Label')

plt.set\_xlabel('Horizontal Axis Label')

plt.show()





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ax = area\_df.plot(kind='area', figsize=(20, 10))

ax.title('Plot Title')

ax.ylabel('Vertical Axis Label')

ax.xlabel('Horizontal Axis Label')





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ax = area\_df.plot(kind='area', figsize=(20, 10))

ax.set\_title('Plot Title')

ax.set\_ylabel('Vertical Axis Label')

ax.set\_xlabel('Horizontal Axis Label')





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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()





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ax = area\_df.plot(type='area', figsize=(20, 10))

ax.set\_title('Plot Title')

ax.set\_ylabel('Vertical Axis Label')

ax.set\_xlabel('Horizontal Axis Label')

1 point

3.Question 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?



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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.

1 point

4.Question 4

The following code will create a histogram of a *pandas*series, **series\_data**, and align the bin edges with the horizontal tick marks.



1

2

count, bin\_edges = np.histogram(series\_data)

series\_data.plot(kind='hist', xticks = bin\_edges)



True.



False.

1 point

5.Question 5

The following code will create a horizontal bar chart of the data in a *pandas* dataframe, **question.**



1

question.plot(kind='barh')



True.



False.

1 point

Q) 5.Question 5

The following code will create a horizontal bar chart of the data in a *pandas* dataframe, **question.**



1

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



True.



False.

1 point

Q)The following code uses the artist layer to create a stacked area plot of the data in the *pandas* dataframe, **area\_df.**



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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.

1 point