# **Day-5 Quiz-DataScience-Training**

Welcome to the Python Programming Quiz! This quiz tests your knowledge of Python, Pandas, Seaborn and matplotlib. Please read the instructions carefully before starting the quiz.

#### Instructions and Rules

- Time Limit: You have 20 minutes to complete the quiz.
- Number of Questions: The quiz consists of 20 multiple-choice questions.
- Scoring: Each correct answer is worth 1 point. There is no negative marking for incorrect answers.
- Single Attempt: You are allowed only one attempt to complete the quiz.
- Required Fields: All guestions are mandatory. You must answer each guestion to submit the guiz.
- Resources: This is a closed-book guiz. Do not use any external resources, including books, notes, or the internet.
- **Honesty:** Please answer the questions honestly and to the best of your ability. Cheating or dishonesty will result in disqualification.
- Environment: Ensure you are in a quiet environment where you can concentrate without interruptions.
- Technical Issues: In case of technical issues, please contact the quiz administrator immediately.
- Retakes: There are no retake opportunities for this quiz. Ensure you are prepared before starting.

#### Good luck, and do your best!

* Indicates required question		

1. Email \*

2.	1. How do you change the color of the lines in a line plot in Matplotlib? *
	Mark only one oval.
	A. plt.plot(x, y, c='r')
	B. plt.plot(x, y, linecolor='r')
	C. plt.plot(x, y, color='r')
	D. plt.plot(x, y, col='r')
3.	2. Which function is used to create subplots in Matplotlib? *
	Mark only one oval.
	A. plt.subplots()
	B. plt.subfigures()
	C. plt.subplotfig()
	D. plt.subplot()

	What parameter is used to set the width of the bars in a bar plot
Ма	ark only one oval.
	A. barwidth
	B. barwidths
	C. width
	D. linewidth
4.	How do you set the x-axis limits in Matplotlib? *
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	How do you set the x-axis limits in Matplotlib? *  ark only one oval.
	How do you set the x-axis limits in Matplotlib? *  ark only one oval.  A. plt.xlimit()

6.	5. What is the command to set the title of the y-axis in Matplotlib? *
	Mark only one oval.
	A. plt.ytitle()
	B. plt.ylabel()
	C. plt.label_y()
	D. plt.title_y()
7.	6. Which function is used to create a pair plot in Seaborn? *  Mark only one oval.
	A. sns.pair()
	B. sns.pairplot()
	C. sns.pairs()
	D. sns.pair_graph()

8.	7. How do you create a heatmap with annotations in Seaborn? *				
	Mark only one oval.				
	A. sns.heatmap(data, annot=True)				
	B. sns.heatmap(data, annotations=True)				
	C. sns.heatmap(data, label=True)				
	D. sns.heatmap(data, note=True)				
9.					
٦.	8. Which Seaborn function is used to visualize the distribution of a single variable? *				
9.	8. Which Seaborn function is used to visualize the distribution of a single variable? *  Mark only one oval.				
9.					
9.	Mark only one oval.				
9.	Mark only one oval.  A. sns.histplot()				
9.	Mark only one oval.  A. sns.histplot()  B. sns.distplot()				
9.	Mark only one oval.  A. sns.histplot()  B. sns.distplot()  C. sns.kdeplot()				

10.	9. In Seaborn, how do you create a regression plot with a confidence interval? *	
	Mark only one oval.	
	A. sns.regplot(ci=True)	
	B. sns.regplot()	
	C. sns.lmplot()	
	D. sns.lmplot(ci=True)	
11.	10. Which Seaborn function is used to create a categorical scatter plot with points adjusted (jittered) along the categorical axis?	*
	Mark only one oval.	
	A. sns.stripplot()	
	B. sns.swarmplot()	
	C. sns.pointplot()	
	C. sns.pointplot()	
	C. sns.pointplot()	

12.	11. How can you set the size of a figure in Matplotlib? *				
	Mark only one oval.				
	A. plt.size()				
	B. plt.set_size()				
	C. plt.figure(figsize=(width, height))				
	D. plt.dimensions()				
13.	12. How do you create a grid of subplots in Matplotlib? *				
	Mark only one oval.				
	A. plt.grid()				
	A. plt.grid()  B. plt.subplots()				
	B. plt.subplots()				
	B. plt.subplots() C. plt.subplot_grid()				

14.	13. How can you add a title to a Seaborn plot? *
	Mark only one oval.
	A. sns.title()
	B. sns.set_title()
	C. plt.title()
	D. plt.header()
15.	14. Which Matplotlib function is used to add a horizontal line across the axis? *
	Mark only one oval.
	A. plt.hline()
	B. plt.axhline()
	C. plt.lineh()
	D. plt.horizon()

16.	15. How do you set the style of Seaborn plots? *
	Mark only one oval.
	A. sns.style()
	B. sns.set()
	C. sns.set_style()
	D. sns.plot_style()
17.	16. What does the plt.gca() function do in Matplotlib? *
17.	16. What does the plt.gca() function do in Matplotlib? *  Mark only one oval.
17.	
17.	Mark only one oval.
17.	Mark only one oval.  A. Gets the current axis
17.	Mark only one oval.  A. Gets the current axis  B. Sets the current axis
17.	Mark only one oval.  A. Gets the current axis  B. Sets the current axis  C. Adds a new axis

18.	17. How do you rotate the x-axis labels in Matplotlib? *
	Mark only one oval.
	A. plt.xaxis.rotate()
	B. plt.rotate_xlabels()
	C. plt.xticks(rotation=angle)
	D. plt.xlabels(angle)
19.	18. What is the purpose of the sns.FacetGrid class in Seaborn? *
	Mark only one oval.
	A. To create a grid of plots for different subsets of data
	B. To create a single plot with multiple facets
	C. To create a plot with multiple axes
	D. To create a plot with multiple subplots

20.	19. How do you create a horizontal bar plot in Seaborn? *
	Mark only one oval.
	A. sns.barplot(orient='horizontal')
	B. sns.hbarplot()
	C. sns.barplot(orient='h')
	D. sns.barplot(x=, y=)

## 21. 20. What is the output of the following code snippet when creating a joint plot in Seaborn? \*

```
1 import seaborn as sns
2 import matplotlib.pyplot as plt
3 import numpy as np
4 import pandas as pd
6 # Create a dataset
7 np.random.seed(10)
8 data = pd.DataFrame({
9 'x': np.random.normal(size=100),
       'y': np.random.normal(size=100)
11 })
12
13 # Create a joint plot
14 | g = sns.jointplot(x='x', y='y', data=data, kind='reg', marginal_kws=dict(bins=15, fill=True))
15
16 # Customize the plot
17 g.plot_marginals(sns.histplot, kde=True, color='m')
18 plt.show()
```

### Mark only one oval.

- A. A joint plot with scatter and regression line without histograms.
- B. A joint plot with scatter and regression line with default histograms.
- C. A joint plot with scatter and regression line with customized histograms.
- D. A joint plot with only the regression line.

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