Enter your registered phone number *

Your answer

How would you add a 1D array [1, 2, 3] to each row of a 2D array 'arr' of shape (3, 3)? 1 point

- result = arr + [1, 2, 3]
- result = add(arr, [1, 2, 3])
- result = add(arr + np.array([1][2][3]))
- result = add(arr, np.array([1, 2, 3]))

How would you set all elements of a NumPy array 'arr' that are greater than 10 to 10? 1 point

- arr[arr > 10] = 10
- arr = np.where(arr > 10, 10, arr)
- arr[np.greater(arr, 10)] = 10
- arr[arr > 10] == 10

How would you apply a custom aggregation function custom_agg to group a DataFrame 'df' by column 'A'? 1 point

- grouped_df = df.groupby('A').apply(custom_agg)
- grouped_df = df.groupby('A').agg(custom_agg)
- grouped_df = df.groupby('A').transform(custom_agg)
- grouped_df = df.groupby('A').aggregate(custom_agg)

How would you select all rows in DataFrame 'df' where the column 'A' has values greater than 5 and less than 10? 1 point

- selected = df[(df['A'] > 5) & (df['A'] < 10)]
- selected = df[df['A'] > 5 & df['A'] < 10]
- selected = df.query('A > 5 & A < 10')
- selected = df[df['A'].between(5, 10)]

How would you sort a DataFrame 'df' first by column 'A' in ascending order and then by column 'B' in descending order? 1 point

a) ```python sorted_df = df.sort_values(by=['A', 'B'], ascending=[True, False])
css
Copy code
b) ```python sorted_df = df.sort_values(by=['A', 'B'], ascending=[False, True])

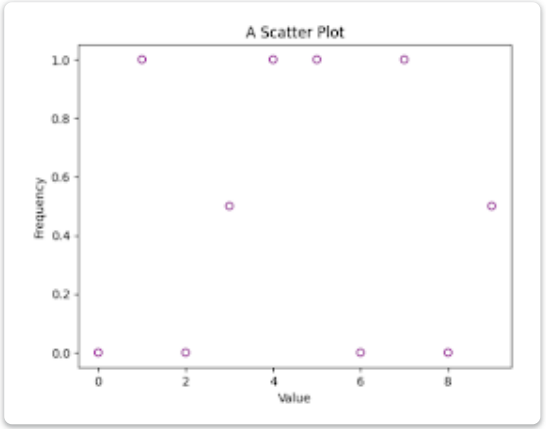
c) ```python sorted_df = df.sort(['A', 'B'], ascending=[True, False])
css
Copy code
d) ```python sorted_df = df.order(['A', 'B'], ascending=[True, False])

- ◯ sorted_df = df.sort_values(by=['A', 'B'], ascending=[True, False])
- ◯ sorted_df = df.sort_values(by=['A', 'B'], ascending=[False, True])
- ◯ sorted_df = df.sort(['A', 'B'], ascending=[True, False])
- ◯ sorted_df = df.order(['A', 'B'], ascending=[True, False])

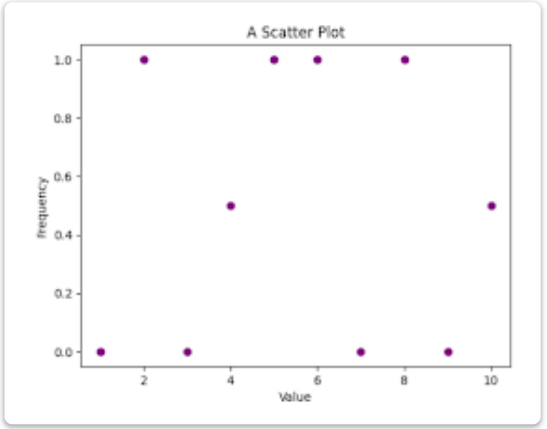
Predict the output for the given piece of code

1 point

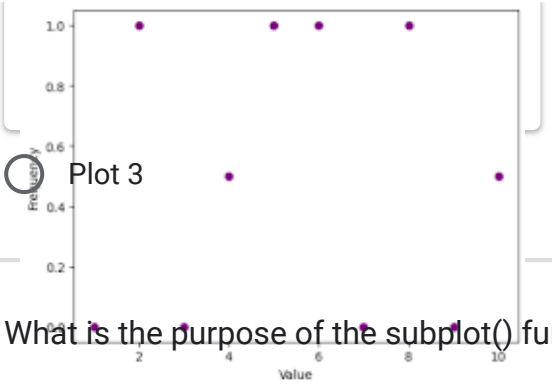
```
x = np.arange(10)
y = np.array([0, 1, 0, 0.5, 1, 1, 0, 1, 0, 0.5])
plt.scatter(x, y, marker='o', color='purple')
plt.xlabel('Value')
plt.ylabel('Frequency')
plt.title('A Scatter Plot')
plt.show()
```



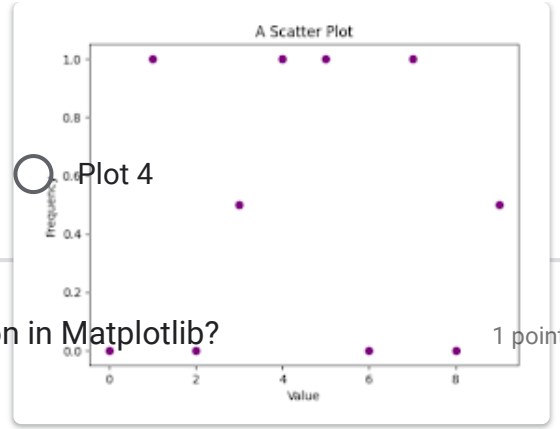
Plot 1



Plot 2



Plot 3



Plot 4

What is the purpose of the subplot() function in Matplotlib? 1 point

- Create multiple plots in one figure
- Adjust subplot spacing
- Add subplots to a figure
- Set the subplot title

Which of the following is the correct syntax to create a histogram with specified number of bars? 1 point

- plt.hist(x, bar=10)
- plt.histogram(x, bars=10)
- plt.histogram(x, bins=10)
- plt.hist(x, bins=10)

Which of the following are feature scaling techniques? 1 point

- Min-Max Scaler
- Label Encoder
- Normalization
- Mode Imputation

To fill in the missing values for the data containing outliers, which imputation method is best preferred? 1 point

- Mode imputation
- Median imputation
- Mean imputation
- None of the above

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