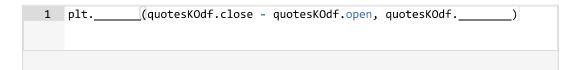
Data Statistics, Mining and Application quiz

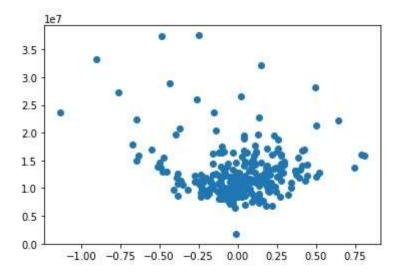
TOTAL POINTS 8

When doing qualitative data distribution analysis, statistics are often made on the category of an attribute. In addition to the pie chart, the object's() method is often used for calculation. The calculation results are shown in the figure below. Assume that the attribute target has 3 categories, and each category has 50, 20, and 50 samples.	1 point
2 50	
1 20	
0 50	
Name: target, dtype: int64	
Enter anguer have	
Enter answer nere	
Statistical analysis is divided into two categories: central tendency analysis and dispersion tendency analysis. What are the indicators for dispersion tendency analysis in the following options?	1 point
Mean	
Standard deviation	
Median	
✓ IRQ	
Scatter plots are an effective way to observe the relationship between two one-	1 point
by a semicolon) to get the scatter plot of the difference between the daily opening	
	category of an attribute. In addition to the pie chart, the object's

price and the closing price and the current day's trading volume of the Coca-Cola

company in the past year. Assuming that the data has been obtained and stored in a DataFrame object named quotesKOdf, the names of the daily closing price, opening price and trading volume are open, close, and volume.

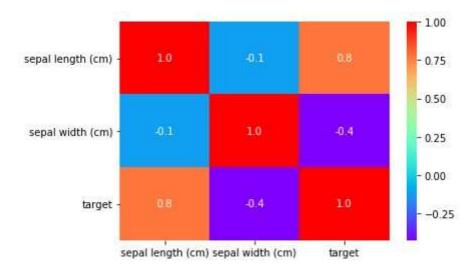




Enter answer here

4. Observe the following heat map based on the Pearson correlation coefficient to determine the correlation between the attributes sepal width (cm) and sepal length (cm). Which of the following options may be met?

1 point



Negative strong linear correlation	
O Positive weak linear correlation	
Negative weak linear correlation	
Suppose you want to calculate the median of all attributes that is in the records with opening price in the range [52,54] of the Coca-Cola Company in the past year (assuming that the data is stored in the DataFrame object named quotesKOdf). Please choose the options that match the appropriate code at two horizontal lines.	point
<pre>1 quotesKOdf[(quotesKOdf.open >= 52) (quotesKOdf.open <= 54)]</pre>	
; mean	
or; median	
&; median	
and; median	
Suppose you have obtained some historical data of Coca-Cola Company and stored the data in a DataFrame object named quotesKOdf. The date is set to the index of quotesKOdf. Which of the following options can be used to calculate the total volume of each month in quotesKOdf?	point
close high low open volume 2018-10-22 45.970001 46.459999 45.810001 46.369999 14283600 2018-10-23 46.360001 46.459999 45.450001 45.619999 17483900 2018-10-24 46.730000 47.389999 46.240002 46.330002 21626000 2018-10-25 46.509998 46.740002 46.119999 46.650002 14220200	

Positive strong linear correlation

5.

6.

```
1 >>> month = [item[5:7] for item in quotesKOdf.index]
2 >>> sum(quotesKOdf.groupby(month).volume)
```



```
1 >>> month = [item[5:7] for item in quotesKOdf.index]
2 >>> quotesKOdf.groupby(month).volume.sum()
```



```
1  >>> month = [item[5:7] for item in quotesKOdf.index]
2  >>> quotesKOdf.groupby(month).volume.apply(sum)
```

```
1  >>> month = [item[5:7] for item in quotesKOdf.index]
2  >>> quotesKOdf.groupby(month).volume.apply(sum())
```

7. If you have selected two parts of data from a DataFrame object named df (keep the data attributes complete) and stored them in the DataFrame objects named df1 and df2 respectively, the code is as follows. Please select the function/method from the following options that can correctly merge the two parts of data into one.

1 point

```
1 >>> import pandas as pd
2 >>> pd. ([df1, df2])
```

append



	join
	merge
8.	Please decide whether the following statements are true or false. 1 point
	K-means is an unsupervised clustering learning algorithm; K represents the center quantity initially selected by the user in space.
	● T
) F
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