Started on	Monday, 1 July 2024, 3:41 PM
State	Finished
Completed on	Monday, 1 July 2024, 3:44 PM
Time taken	3 mins
Grade	**9.00** out of 10.00 (**90**%)

Question **1**

Complete

Mark 1.00 out of 1.00

If you want to load the "my-data.csv" file to Dataframe so that you can explore find out the number of data items in the data set, how should you import the required library?

☐ `import numpy as dataframe`

☑ `import pandas as pd`

☐ `import matplotlib.pyplot as pd`

☐ `import seaborn as pd`

Question **2**

Complete

Mark 0.00 out of 1.00

Assume that you want to read data to a Dataframe and you have written the following code. And also assume that the data file is in the local directory where you are executing the code. Select the correct line of code that will load the data.

```
import pandas as pydata
file_name = 'my-data.csv'
col_name = ['name','age','salary','location','class']
```

○ `dataset = pydata.read_csv(file_name, names = col_name)`

◉ `dataset = pd.read_csv(file_name, names = col_name)`

○ `dataset = pydata.read_csv(url, names = col_name)`

○ `pydata.read_csv(file_name, names = col_name)`

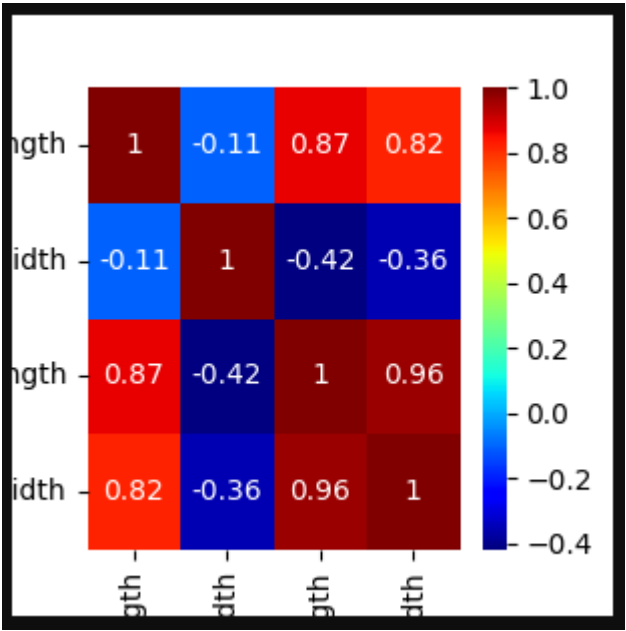|	
`DataFrame.values`	Return a Numpy representation of the DataFrame.
`DataFrame.axes`	Return a list representing the axes of the DataFrame.
`DataFrame.ndim`	Return an int representing the number of axes / array dimensions.
`DataFrame.size`	Return an int representing the number of elements in this object.
`DataFrame.shape`	Return a tuple representing the dimensionality of the DataFrame.

This is an extract from the pandas DataFrame API. If we want to find the number of rows and columns in the dataset that we have loaded, what function should we call? Assume that we have read the data to "dataset"

○ `dataset.shape`

○ `dataset.ndim`

○ `dataset.ndim`

○ `dataset.values`

Question 4

Complete

Mark 1.00 out of 1.00

The given plot is generated by the following code.

```
plt.figure(figsize=(3,3))
sns.heatmap(dataset.corr(), annot=True, cmap='jet')
plt.show()
```

What can you do to fix the plot so that you are able to see names of the attributes.

- ◉ You can increase the size of the plot
- ○ You should change the color of the plot
- ○ This problem cannot be fixed as there are too many items to show in this plot
- ○ You should use 'plt.display()' function

Question 5

Complete

Mark 1.00 out of 1.00

What are some of the steps that we do prior to building a Machine Learning Model? Select all that are correct

- ☑ Preprocess the data
- ☑ Load the data
- ☑ Explore the data
- ☑ Clean the data

Complete and execute the following code to find out the maximum value recorded for the attribute **petal-length** and select the correct answer.

| ☰ | | 🐍 3 | ✏ Code | ▶ Run | ▼ | ◀ Share | ▼ | | 💾 Remix | ⇥ |

‹ › **matrinket**🔑 Python3

[Choose File] No file chosen

○ 7.9

○ 4.4

◉ 6.9

○ 2.5

◀ **5.2 Your First ML Project - Part 1 (Data Exploration)**

Jump to...

5.3 Your First ML Project - Part 2 (Build ML Model) ▶

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