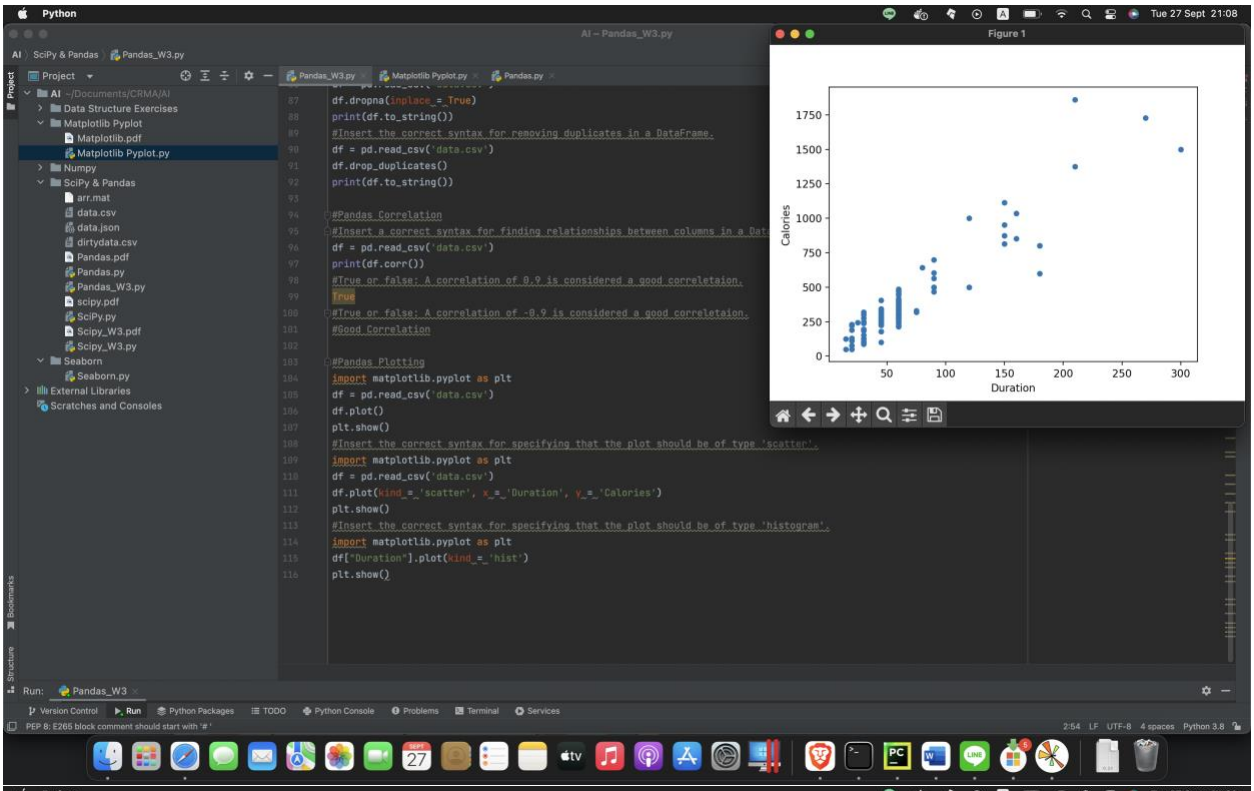
Python
Tue 27 Sept 21:08
AI – Pandas_W3.py
AI 〉 SciPy & Pandas 〉 Pandas_W3.py
Project
AI ~/Documents/CRMA/AI
Data Structure Exercises
Matplotlib Pyplot
Matplotlib.pdf
Matplotlib Pyplot.py
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SciPy & Pandas
arr.mat
data.csv
data.json
dirtydata.csv
Pandas.pdf
Pandas.py
Pandas_W3.py
scipy.pdf
SciPy.py
Scipy_W3.pdf
Scipy_W3.py
Seaborn
Seaborn.py
External Libraries
Scratches and Consoles
Pandas_W3.py
Matplotlib Pyplot.py
Pandas.py
df.dropna(inplace_=_True)
print(df.to_string())
#Insert the correct syntax for removing duplicates in a DataFrame.
df = pd.read_csv('data.csv')
df.drop_duplicates()
print(df.to_string())
#Pandas Correlation
#Insert a correct syntax for finding relationships between columns in a Dat
df = pd.read_csv('data.csv')
print(df.corr())
#True or false: A correlation of 0.9 is considered a good correletaion.
True
#True or false: A correlation of -0.9 is considered a good correletaion.
#Good Correlation
#Pandas Plotting
import matplotlib.pyplot as plt
df = pd.read_csv('data.csv')
df.plot()
plt.show()
#Insert the correct syntax for specifying that the plot should be of type 'scatter'.
import matplotlib.pyplot as plt
df = pd.read_csv('data.csv')
df.plot(kind_=_'scatter', x_=_'Duration', y_=_'Calories')
plt.show()
#Insert the correct syntax for specifying that the plot should be of type 'histogram'.
import matplotlib.pyplot as plt
df["Duration"].plot(kind_=_'hist')
plt.show()
Figure 1
Calories
Duration
Run: Pandas_W3
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PEP 8: E265 block comment should start with '# '
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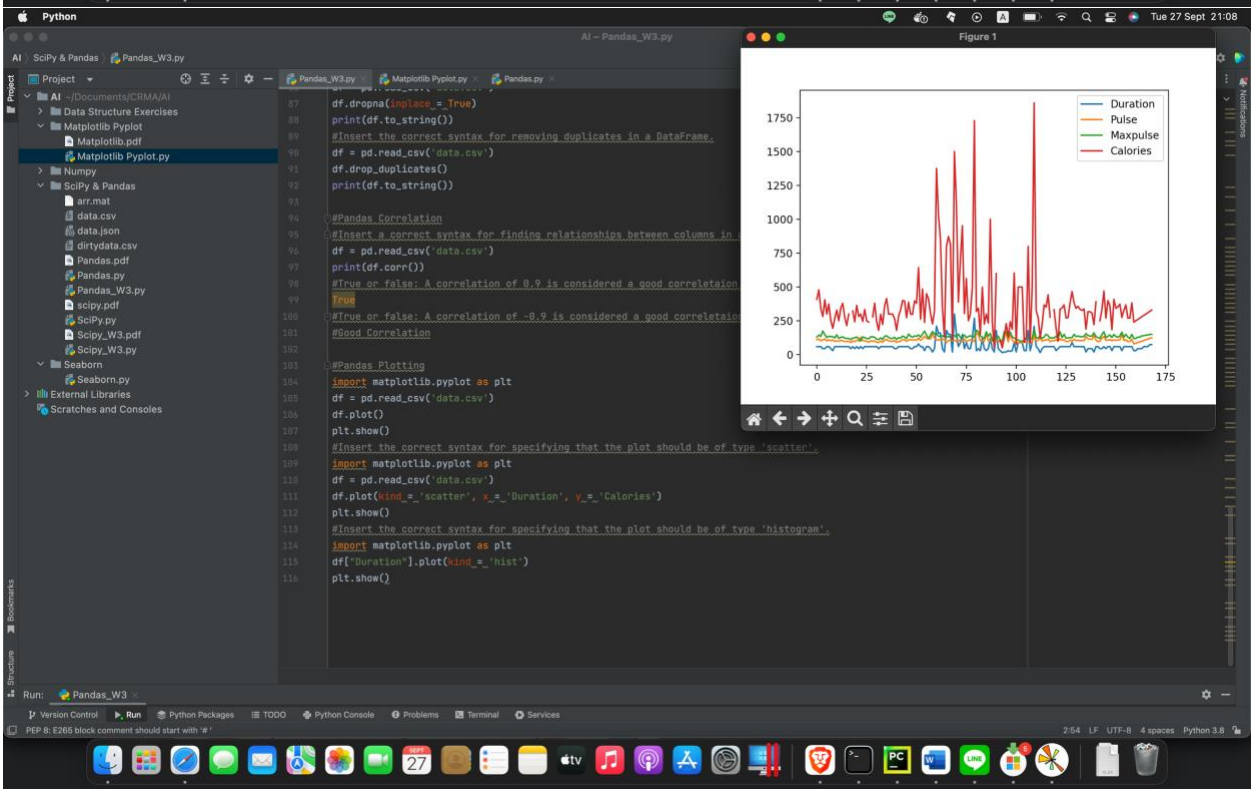
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df.plot(kind_=_'scatter', x_=_'Duration', y_=_'Calories')
plt.show()
#Insert the correct syntax for specifying that the plot should be of type 'histogram'.
import matplotlib.pyplot as plt
df["Duration"].plot(kind_=_'hist')
plt.show()
Figure 1
Duration
Pulse
Maxpulse
Calories
Run: Pandas_W3
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AI – Pandas_W3.py

AI 〉 SciPy & Pandas 〉 Pandas_W3.py

Pandas_W3.py | Matplotlib Pyplot.py | Pandas.py

```python
df = pd.DataFrame(data)
print(df)
#Insert the correct syntax for returning the headers and the first 10 rows of a DataFrame.
df = pd.read_csv('data.csv')
print(df.head(10))
#When using the head() method, how many rows are returned if you do not specify the number?
#The headers and 5 rows
df = pd.read_csv('data.csv')
print(df.head())
#The head() method returns the first rows, what method returns the last rows?
print(df.tail())

#Pandas Cleansing
#Insert the correct syntax for removing rows with empty cells.
df = pd.read_csv('data.csv')
new_df = df.dropna()
print(new_df.to_string())
#Insert the correct syntax for replacing empty cells with the value "130".
df = pd.read_csv('data.csv')
df.fillna(130,inplace_=_True)
print(df.to_string())
#Insert the correct argument to make sure that the changes are done for the original DataFrame instead of returning a new one.
df = pd.read_csv('data.csv')
df.dropna(inplace_=_True)
print(df.to_string())
#Insert the correct syntax for removing duplicates in a DataFrame.
df = pd.read_csv('data.csv')
df.drop_duplicates()
print(df.to_string())

#Pandas Correlation
#Insert a correct syntax for finding relationships between columns in a DataFrame.
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```

Run: Pandas_W3

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AI – Pandas_W3.py

AI 〉 SciPy & Pandas 〉 Pandas_W3.py

Pandas_W3.py | Matplotlib Pyplot.py | Pandas.py

```python
import_pandas as pd
#Insert the correct Pandas method to create a Series.
mylist = [1,7,2]
myseries = pd.Series(mylist)
print(myseries)
#Insert the correct syntax to return the first value of a Pandas Series called myseries
print(myseries[0])
#Insert the correct syntax to add the labels "x", "y", and "z" to a Pandas Series.
myvar = pd.Series(mylist, index_=_["x", "y", "z"])
print(myvar)
#Insert the correct Pandas method to create a DataFrame.
data = {
  "calories": [420, 380, 390],
  "duration": [50, 40, 45]
}
df = pd.DataFrame(data)
print(df)
#Insert the correct syntax to return the first row of a DataFrame.
print(df.loc[0])
#Insert the correct syntax for loading CSV files into a DataFrame.
df = pd.read_csv('data.csv')
print(df)
#Insert the correct syntax to return the entire DataFrame.
df = pd.read_csv('data.csv')
print(df.to_string())
#Insert the correct syntax for loading JSON files into a DataFrame.
df = pd.read_json('data.json')
print(df)
#Insert the correct syntax for loading a Python dictionary called "data" into a DataFrame.
data = {
  "Duration":{
    "0":60,
    "1":60,
    "2":60,
    "3":45,
```

Run: Pandas_W3

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AI – Pandas_W3.py

AI 〉 SciPy & Pandas 〉 Pandas_W3.py

Project | Pandas_W3.py | Matplotlib Pyplot.py | Pandas.py

Run: Pandas_W3

```
139        20   141       162    222.4
140        60   108       135    390.0
141        60    97       127      NaN
142        45   100       120    250.4
143        45   122       149    335.4
144        60   136       170    470.2
145        45   106       126    270.8
146        60   107       136    400.0
147        60   112       146    361.9
148        30   103       127    185.0
149        60   110       150    409.4
150        60   106       134    343.0
151        60   109       129    353.2
152        60   109       138    374.0
153        30   150       167    275.8
154        60   105       128    328.0
155        60   111       151    368.5
156        60    97       131    270.4
157        60   100       120    270.4
158        60   114       150    382.8
159        30    80       120    240.9
160        30    85       120    250.4
161        45    90       130    260.4
162        45    95       130    270.0
163        45   100       140    280.9
164        60   105       140    290.8
165        60   110       145    300.0
166        60   115       145    310.2
167        75   120       150    320.4
168        75   125       150    330.4
           Duration     Pulse  Maxpulse  Calories
Duration   1.000000 -0.155408  0.009403  0.922717
Pulse     -0.155408  1.000000  0.786535  0.025121
Maxpulse   0.009403  0.786535  1.000000  0.203813
Calories   0.922717  0.025121  0.203813  1.000000
```

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AI – Pandas_W3.py

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Project | Pandas_W3.py | Matplotlib Pyplot.py | Pandas.py

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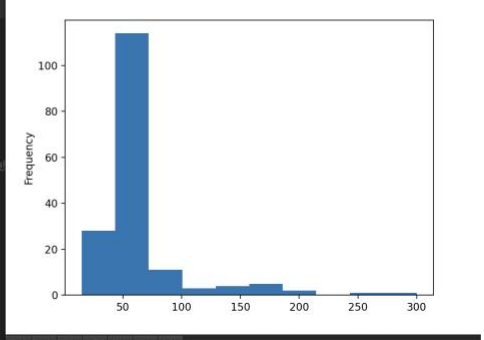
```

Figure 1



Run: Pandas_W3

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