

Q Commands+ Code+ Text▶ Run all

Files

..sample_dataBankNote_Authentication.csvheadbrain - headbrain.csviris - iris.csvrecipes_muffins_cupcakes - recipes...suv_data - suv_data.csv

Disk68.33 GB available

[24]✓ 6s▶

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np

df = pd.read_csv('/content/iris - iris.csv')
print(df.head())

print(df.shape)

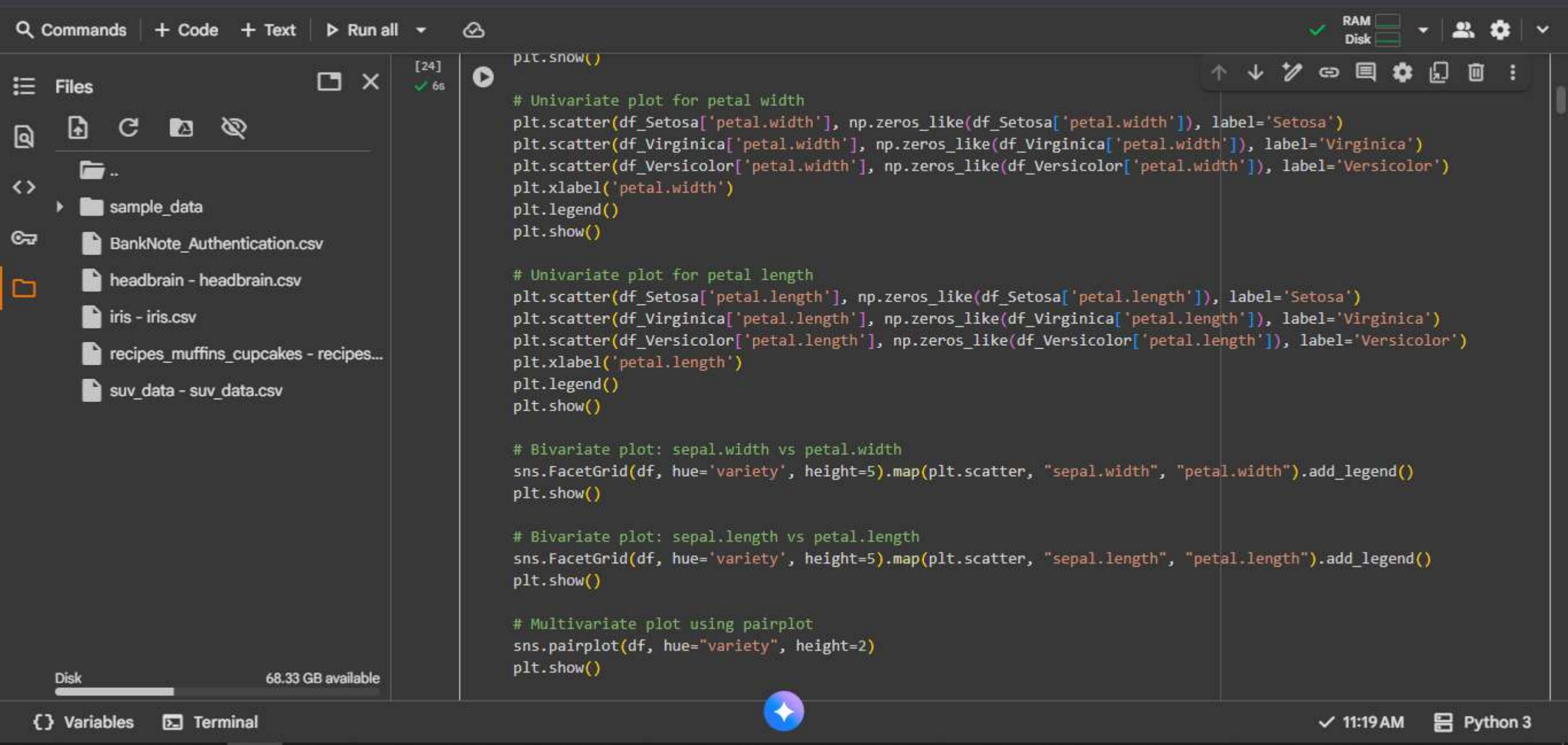
# Univariate plot for sepal width
df_Setosa = df[df['variety'] == 'Setosa']
df_Virginica = df[df['variety'] == 'Virginica']
df_Versicolor = df[df['variety'] == 'Versicolor']

plt.scatter(df_Setosa['sepal.width'], np.zeros_like(df_Setosa['sepal.width']), label='Setosa')
plt.scatter(df_Virginica['sepal.width'], np.zeros_like(df_Virginica['sepal.width']), label='Virginica')
plt.scatter(df_Versicolor['sepal.width'], np.zeros_like(df_Versicolor['sepal.width']), label='Versicolor')
plt.xlabel('sepal.width')
plt.legend()
plt.show()

# Univariate plot for sepal length
plt.scatter(df_Setosa['sepal.length'], np.zeros_like(df_Setosa['sepal.length']), label='Setosa')
plt.scatter(df_Virginica['sepal.length'], np.zeros_like(df_Virginica['sepal.length']), label='Virginica')
plt.scatter(df_Versicolor['sepal.length'], np.zeros_like(df_Versicolor['sepal.length']), label='Versicolor')
plt.xlabel('sepal.length')
plt.legend()
plt.show()
```

RAMDisk

11:19 AMPython 3



```
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```

Files

sample_data
BankNote_Authentication.csv
headbrain - headbrain.csv
iris - iris.csv
recipes_muffins_cupcakes - recipes...
suv_data - suv_data.csv

[24] ✓ 6s

```
plt.show()

# Univariate plot for petal width
plt.scatter(df_Setosa['petal.width'], np.zeros_like(df_Setosa['petal.width']), label='Setosa')
plt.scatter(df_Virginica['petal.width'], np.zeros_like(df_Virginica['petal.width']), label='Virginica')
plt.scatter(df_Versicolor['petal.width'], np.zeros_like(df_Versicolor['petal.width']), label='Versicolor')
plt.xlabel('petal.width')
plt.legend()
plt.show()

# Univariate plot for petal length
plt.scatter(df_Setosa['petal.length'], np.zeros_like(df_Setosa['petal.length']), label='Setosa')
plt.scatter(df_Virginica['petal.length'], np.zeros_like(df_Virginica['petal.length']), label='Virginica')
plt.scatter(df_Versicolor['petal.length'], np.zeros_like(df_Versicolor['petal.length']), label='Versicolor')
plt.xlabel('petal.length')
plt.legend()
plt.show()

# Bivariate plot: sepal.width vs petal.width
sns.FacetGrid(df, hue='variety', height=5).map(plt.scatter, "sepal.width", "petal.width").add_legend()
plt.show()

# Bivariate plot: sepal.length vs petal.length
sns.FacetGrid(df, hue='variety', height=5).map(plt.scatter, "sepal.length", "petal.length").add_legend()
plt.show()

# Multivariate plot using pairplot
sns.pairplot(df, hue="variety", height=2)
plt.show()
```

{} Variables

Terminal

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| | sepal.length | sepal.width | petal.length | petal.width | variety |
|---|--------------|-------------|--------------|-------------|---------|
| 0 | 5.1 | 3.5 | 1.4 | 0.2 | Setosa |
| 1 | 4.9 | 3.0 | 1.4 | 0.2 | Setosa |
| 2 | 4.7 | 3.2 | 1.3 | 0.2 | Setosa |
| 3 | 4.6 | 3.1 | 1.5 | 0.2 | Setosa |
| 4 | 5.0 | 3.6 | 1.4 | 0.2 | Setosa |

(150, 5)

