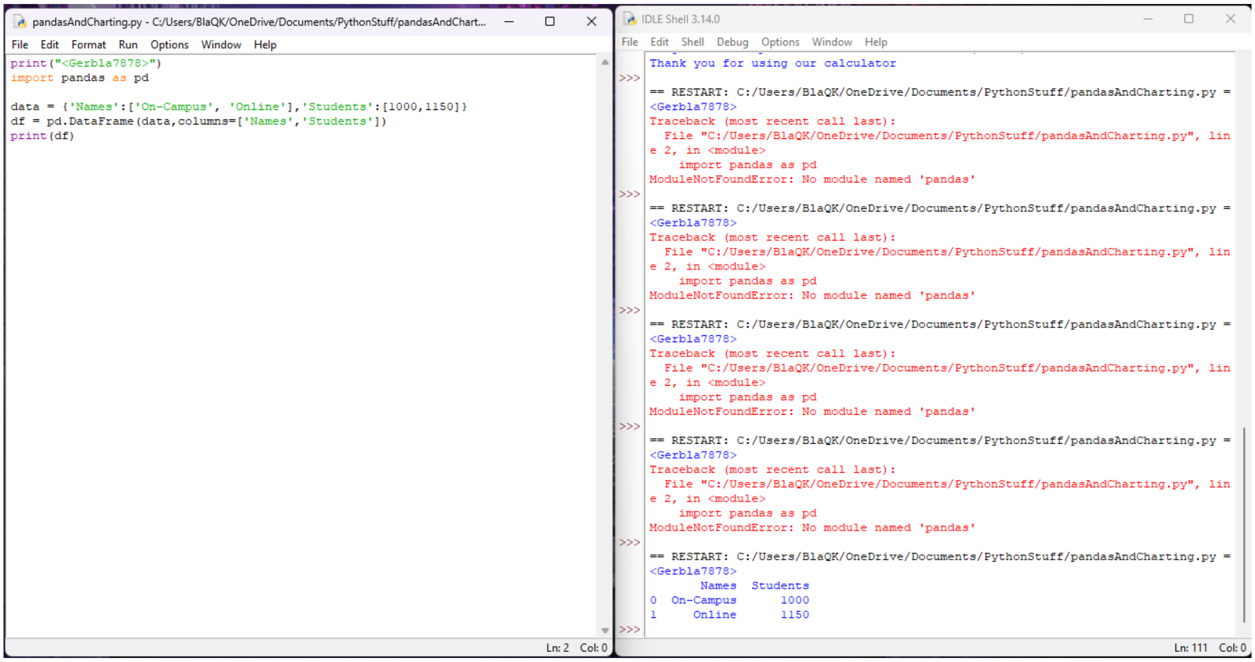
Gerald Blackwell

3.5 Guided Practice Pandas and Charting



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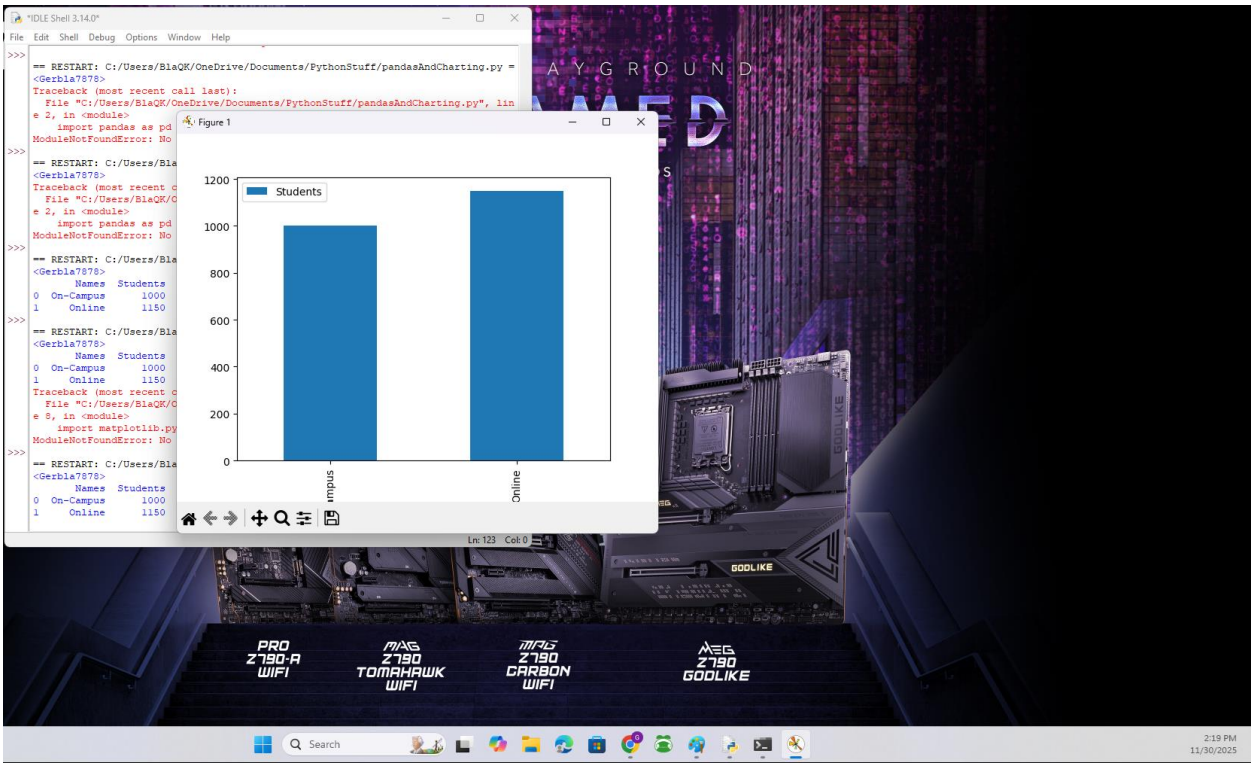
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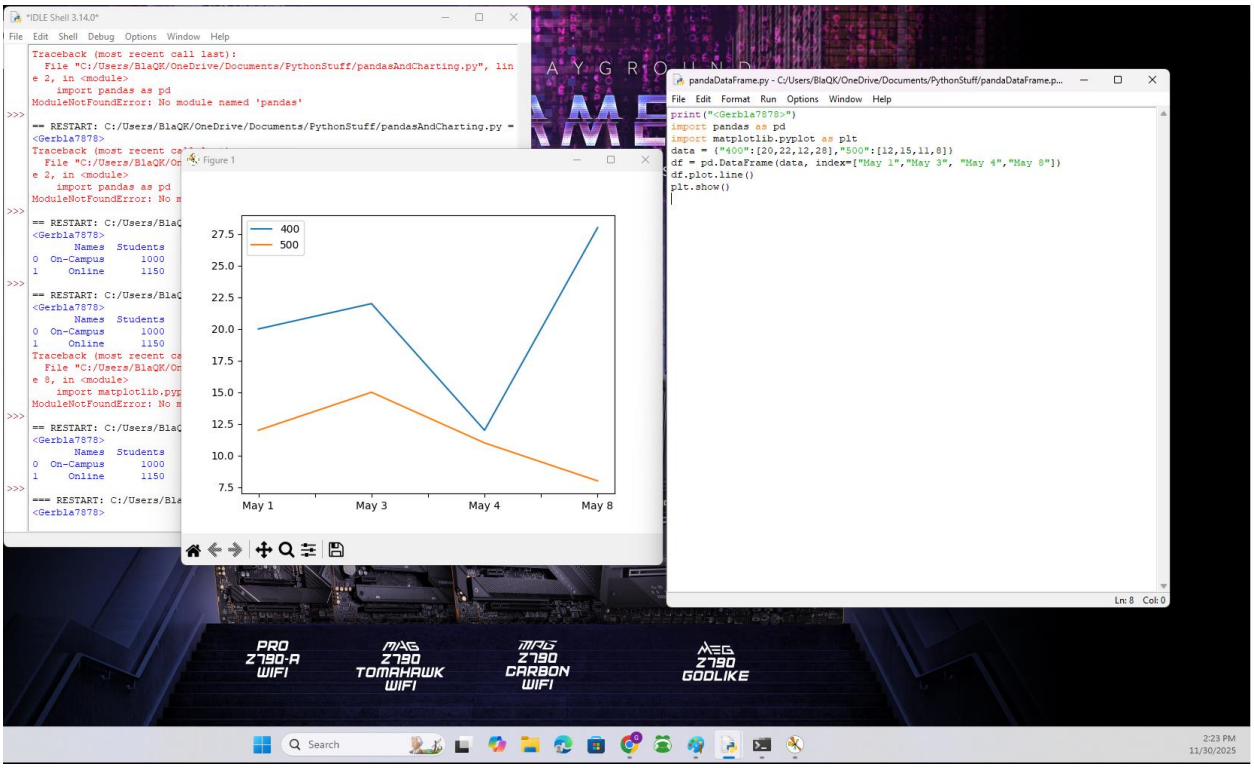
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pandaDataFrame.py - C:/Users/BlaQK/OneDrive/Documents/PythonStuff/pandaDataFrame.p...
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print("<Gerbla7878>")
import pandas as pd
import matplotlib.pyplot as plt
data = {"400":[20,22,12,28],"500":[12,15,11,8]}
df = pd.DataFrame(data, index=["May 1","May 3", "May 4","May 8"])
df.plot.line()
plt.show()
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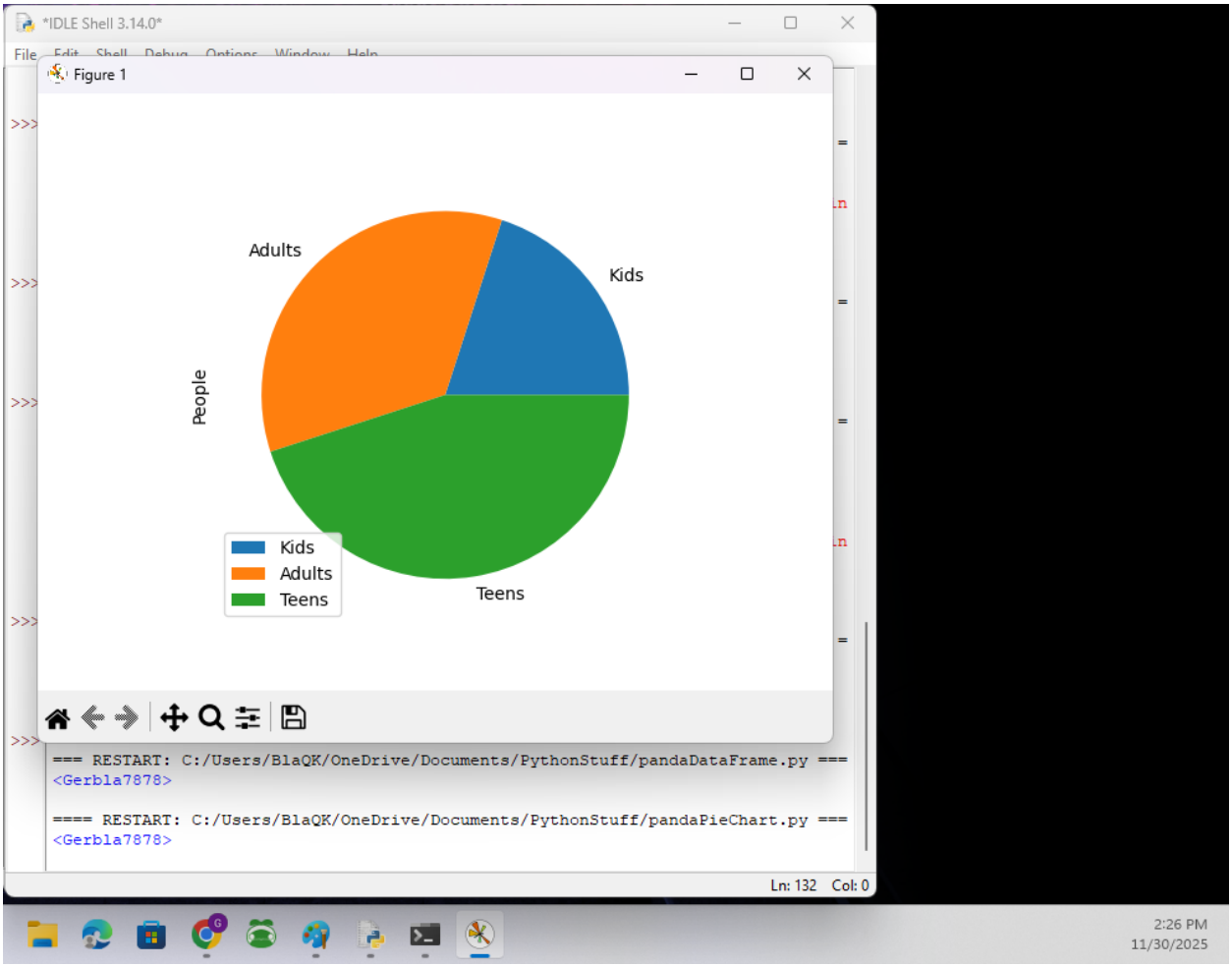

1. Explain what is meant by a key-value store. Give an example, other than the one included in this guided practice.
   A key-value store is a type of database or data storage system where data is organized as pairs: a key and its associated value.

   contacts = {
   "alice@example.com": "555-1234",
   "bob@example.com": "555-5678",
   "carol@example.com": "555-9012"
   }

   # Accessing a value using a key
   print(contacts["bob@example.com"]) # Output: 555-5678

2. In your own words, explain what a DataFrame is in the context of the pandas library.
   DataFrame in pandas is a table-like structure with rows and columns that makes it easy to store and manipulate data.

   ```
   import pandas as pd

   data = {
     "Product": ["Laptop", "Phone", "Tablet"],
     "Price": [1200, 800, 400],
     "Stock": [5, 10, 7]
   }

   df = pd.DataFrame(data)
   print(df)
   ```

   Output:

   ```
    Product  Price  Stock
   0  Laptop   1200     5
   1   Phone    800    10
   2  Tablet    400     7
   ```

3. Explain the role of an index in the context of a DataFrame. Give an example, other than the one included in this guided practice.

   the **index** labels each row, making it easier to access or identify data.