Task: Introduction to Pivoting in Pandas

C Learning Objectives (To be Answered/Explored by You)

By completing this task, you must write answers in your own words **and** demonstrate with examples in code for the following:

- What pivoting is and why it is useful.
- The difference between pivot() and pivot_table() in Pandas.
- How to reshape datasets using pivot() and pivot_table()
- How to summarize and analyze data using pivoting.
- Why pivoting is useful in real-world data analysis.

Part 1: Basic Pivoting

- 1. Load the given dataset (student scores.csv).
- 2. Perform the following:
 - o Display the first 10 rows of the dataset.
 - Identify the columns available.
 - Choose two categorical columns and one numerical column.
- 3. Create and practice at least two different pivot tables using pd.pivot table().
- 4. Display and explain the resulting pivot tables in your own words.

Part 2: Exploring Pivot vs Pivot_Table

- 1. Try using both pivot() and pivot_table() on the dataset.
- 2. Write down the differences you observe between both methods.

Part 3: Short Question

Give one real-life example (other than student scores) where pivoting can help simplifying analysis.

Submission: Share your code/ text file in PDF format with output.