**User instructions for Data Handling Assignment.py**

What does this script do?

This program creates a set of Excel **data files** and **answer keys** for each student in your course.

Two files are generated for each student you specify:

* [Student Name] Data File.xlsx → includes the instructions, starting data, and analysis data worksheets.
  + The “Instructions” worksheet tells the student what to do for the assignment.
  + The “Starting Data” worksheet contains the raw data for the student to work with (each student receives a different dataset).
  + The “Analysis Data” worksheet provides a space for the student to place their final results.
* [Student Name] key.xlsx → contains the correct analysis results. You may use this file for grading.

Where to place the script?

Save the Python script into a dedicated folder on your computer.

When you run the program, all student data files and keys will be written into **that same folder**.

It is recommended to keep the program and the generated files together so you don’t lose track of outputs.

How to Specify Student Names?

Inside the script you will see the following line (on line 144 of the script):

student\_names = ["Student1", "Student2", "Student3"]

Replace ["Student1", "Student2", "Student3"] with the actual student names (for example, ["Alice", "Bob", "Charlie"]).

A separate set of Excel files will be created for each name in this list.

What are the system requirements for this script?

1. Python 3.9 or newer (You can download Python at <https://www.python.org/downloads/>)
2. Python libraries numpy and xlsxwriter (in Python, run “pip install numpy xlsxwriter”)
3. Microsoft Excel 2016 or later

How to run this script?

1. Open a terminal (e.g., Command Prompt, Anaconda Prompt, PowerShell).
2. Navigate to the folder where you saved the script.
3. Run the script (“python Data Handling Assignment.py”).
4. Wait for the script to generate files (approximately 1.5 seconds per student, though this will vary based on system specifications).