

DATA 3402-Python II

Homework 1

Due: Aug. 27, 2025, 23:59 PM

Required Files:

1. **Python Script** (.py file) or **Jupyter Notebook file** (.ipynb file): Everyone should submit the Python script file or Jupyter Notebook file you used to complete the assignment. The file should contain your well-commented code.
2. **PDF Version** (pdf file): Additionally, submit a PDF version of your Python code and results. This can be a printout or export of your script, showing all the code with any necessary explanations and output results included.

Write a Python program that creates an **8×8 chess board** and initializes all the pieces in their correct starting positions.

1. Represent the chess board using a **nested list** (8 lists, each with 8 elements).
2. Use the following abbreviations for pieces:
 - "WP" = White Pawn, "WR" = White Rook, "WN" = White Knight, "WB" = White Bishop, "WQ" = White Queen, "WK" = White King
 - "BP" = Black Pawn, "BR" = Black Rook, "BN" = Black Knight, "BB" = Black Bishop, "BQ" = Black Queen, "BK" = Black King
3. The starting arrangement should look like this (rows from **top (Black side)** to **bottom (White side)**).

