Lab 2

Task 1:

Scenario: You are processing player statistics for a sports analytics application.

1. **Create a NumPy array** for player statistics (heights, weights, points scored).
2. **Update the weight** of the player with the maximum points scored.
3. **Append a new player's statistics** to the array.
4. **Insert a new statistic** at a specified index within the array.
5. **Delete the player** with the lowest points scored.

Task 2:

Scenario: You are analyzing customer purchases.

1. **Create two NumPy arrays** for purchase amounts and item counts.
2. **Create a shallow copy** of one and a deep copy of the other.
3. **Concatenate both arrays**.
4. **Split the concatenated array** based on a condition.
5. **Modify the original arrays** and analyze the effects on the copies.

Bonus Task: Advanced Git Commands

Scenario: You are working on a collaborative project and need to manage your changes effectively. Answer the following questions related to Git commands.

1. Write down the Git command that allows you to temporarily save your uncommitted changes without committing them. Explain a situation in which this command would be useful during development.
2. After you have temporarily saved your changes, how would you view the list of saved changes? Provide the command you would use.
3. You decide that you want to reapply the most recent saved changes back to your working directory. Which command would you use for this operation, and what happens to the saved changes after you do this?
4. If you want to remove a specific saved change entry after you have reapplied it, which command would you use? What should you consider before executing this command?