- 1. **Summing all the numbers up**: Given the list [1, 5, 8, ["a", 7, 10, [13, "b"], "c", [["d"], 11], 12, ["e"]], "f", 18] access all the integers and sum them up using a Python program.
- 2. **Summing all the letters up**: Given the same list [1, 5, 8, ["a", 7, 10, [13, "b"], "c", [["d"], 11], 12, ["e"]], "f", 18] access all the letters and concatenate them up using a Python program.
- 3. **Mathematics in the matrix**: Given the matrix [[2, 5, 6, 7], [2, 4, 8, 9], [6, 7, 5, 9], [3, 2, 1, 4]] access and compute the following:
 - 1. the sum of all even numbers,
 - 2. the sum of all odd numbers,
 - 3. the sum of all the numbers under the main diagonal,
 - 4. the sum off all the numbers over the second diagonal,
 - 5. the mean of the number on the main and second diagonal.