Exercise C4: Writing a simple library

In this task you are supposed to write a small tools file that contains useful functions. This file can be used through out this course, for your convenience. The input and output of the functions are both defined in the tools.c and tools.h. Complete the functions, then run the test to make sure that you have implemented the functions correctly. The makefiles and project structure is something that you can reuse throughout the course.

Functions that are to be written

- elementwise_addition
- elementwise_multiplication
- dot_product
- create_2D_array
- destroy_2D_array
- matrix_multiplcation
- vector_norm
- normalize_vector
- average
- standard_deviation
- distance_between_vectors