

# **Lab 3**

## **Sorting Algorithms**

# Laboratory 3 Learning

- Connect to Brightspace and go to My Learning.
- Look for Week 3 and download the 3 files that are present there that corresponds to the Laboratory 3.
- Open Clion and create a new project called Lab\_3.
- Inside Clion, create a new source file called main.c
- Check how the quicksort algorithm works by copy and paste the content of the file: quicksort.c
- Run the quicksort.c program
- Check how the quicksort algorithm works in the code.

# Assignment 1 Work

- Connect to Brightspace and go to Assessment.
- Look for Assignment 1 and download the file.
- Read the entire file and understand what is required to do for the assignment 1.

# Assignment 1 Work

- Make sure you addressed the following aspects for Assignment 1:
  - Open and Read input.txt
  - Place file input.txt in a 2-dimensional array
  - Remember to substitute the '\n' character with the string termination character '\0'
  - Print the content of file input.txt correctly
  - Implement the functionalities to read the file and print the content of the 2-D array in a separate module.
- Address Point 2 of Assignment 1 by applying your favorite sorting algorithm