

## ASSIGNMENT INSTRUCTIONS

1. Assignment 05: **30 points w/ 0 E.C. points**
2. Due Date & Time: **05-07-2021 at 11:55 PM**

## WHAT TO SUBMIT

1. ~~Code~~
2. Assignment Report

## HOW TO SUBMIT AND THE RULES TO FOLLOW

- Submit via iLearn, the Assignment Submission section
- Please refer to Assignment 01 for the Assignment Guidelines
- Please follow the Assignment Report Template
- Please follow the Course Policy on Student Conduct and Academic Honesty

PERFORMANCE TRACKER		
ASMT	GRADE	YOUR GRADE
ZOOM	05	
01	15	
02	100	
03	100	
MIDTERM 01	25	
04-PREPARATION	25	
04	75	
MIDTERM 02	25	
05	30	
<b>TOTAL</b>	<b>400</b>	

**A:** 90-100% **B:** 80-89% **C:** 70-79% **D:** 60-69% **F:** 0-60%  
 The course grader provides feedback to your assignments on iLearn.

## ABOUT

This assignment gives us more practice with sorting algorithms.

- We are reviewing and learning 6 sorting algorithms. Detailed instructions, illustrations, code, and samples are provided in class. Please refer to the "Sorting" package and the lecture slides.
- The lecture slides: <http://csc340.ducta.net/WEEK-15/index.php>
- Let us aim to complete this assignment on time so that we will get it graded hopefully before our final exams. This material will be useful for our reviews.
- This assignment is our last assignment for this semester. Congratulations and Thank you!

## INSTRUCTION – Sorting, 30 points

Please come up with an array of 9 random integers then sort the array in 5 different ways. Show the contents of the array each time a sorting algorithm changes it while sorting the array into ascending order. The 6 sorting algorithms we are using are:

- |                   |                 |
|-------------------|-----------------|
| 1. Selection Sort | <b>3 points</b> |
| 2. Insertion Sort | <b>3 points</b> |
| 3. Shell Sort     | <b>7 points</b> |
| 4. Bubble Sort    | <b>3 point</b>  |
| 5. Merge Sort     | <b>7 points</b> |
| 6. Quick Sort     | <b>7 points</b> |

It is OK to do this assignment on paper then organize the snapshots of our work in our assignment report. (Adobe Scan, Google Lens, and Office Lens are good apps, which I know, for scanning documents. Please recommend yours. Thank you.)

Coding is highly recommended but not required. Please submit a single PDF file, the assignment report.

*We have been trying to wrap up the semester as soon as possible so that we can do well on our final exam and find more time for other courses. Let us find time to complete this assignment as soon as possible despite that I set it to be due on 05/07.*

*I am teaching one three CSC 340 sections this summer and this fall. I welcome all of us to attend the sections without enrollment (FREE) if we are interested in reviewing the materials. See you. And thank you! Best. Duc*