

**Computer Engineering Program**

**CNG 315**

**Programming Assignment 1**

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**1. Hardware and Software Specification**

**Operating System**: Manjaro Linux

**KDE Plasma Version**: 5.17.3

**KDE Frameworks Version**: 5.64.0

**Qt Version**: 5.13.2

**Kernel Version**: 5.3.11-1-MANJARO

**OS Type**: 64-bit

**Processors**: 8 × Intel® Core™ i7-8550U CPU @ 1.80GHz

**Memory**: 7.5 GiB of RAM

**GCC version**: 9.2.0

In my tests, I used Linux operating system. In addition, my computer has 4 cores 8 thread CPU with 8 GB rams.

**2. Improved Insertion Sort**

In this algorithm where provided from the assignment