**Project 5 – A -Virtual Memory Manager**

Dear COMP3500 Students,

Please follow the two exercise handouts to design function prototypes and data structures. My sample source code of using bitshift operators to manipulate addresses can be found below.

**Caveat!** Please make an effort to design function prototypes and data structures by yourselves before comparing your design solution with my solution.

**You will NOT improve your design skill if you simply rely on my function and data structure design without proposing your own design solution.**

Lecture notes: [41-Project 5-3 Functions and Data Structures.pptx](https://auburn.instructure.com/courses/919837/files/60221819/download?wrap=1)

Handouts: [41-Project 5 Functions Exercise Handout.pdf](https://auburn.instructure.com/courses/919837/files/60221838/download?wrap=1)

[41-Project 5 Data Structures Exercise Handout.pdf](https://auburn.instructure.com/courses/919837/files/60222117/download?wrap=1)

**My design:**

My draft design of data structures: [41-Project 5 Data Structures Design Draft.pdf](https://auburn.instructure.com/courses/919837/files/60222476/download?wrap=1)

[41-Project 5 Functions Exercise Key.pdf](https://auburn.instructure.com/courses/919837/files/60222263/download?wrap=1)

[41-Project 5 Data Structures Exercise Key.pdf](https://auburn.instructure.com/courses/919837/files/60222269/download?wrap=1)

My sample source code of using bitshift operators to manipulate addresses:

[address.h](https://auburn.instructure.com/courses/919837/files/60222547/download?wrap=1)

[address.c](https://auburn.instructure.com/courses/919837/files/60222568/download?wrap=1)

Compile: gcc address.c -o address

Run: ./address