2-2 Run the Code: System Calls

Question 1: An operating system is to protect between processes running in a system. These processes allow access only to the memory locations that are associated with their unique spaces. The second class is to provide new functionality that is not supported directly by the hardware. Virtual memory and file systems are two examples of such service.

Question 2: Five major activities of an operating system that correlate to file management are provision of mechanisms for deadlock handling, process communications, process synchronization, the suspension & resumption of process, and the creation/deletion of both user and system processes.

Question 3: A main advantage of an operating system designer of using a virtual-machine architecture is that it’s easy to debug and security issues are expected to be easily resolved. The provide a good platform for operating systems research since many different OS can run on one physical system.