Homework #1 Short Answer Part

Instructions: Fill your answers into the space provided below each question.

1. From an OS perspective, what is virtualization? List two resources of a computer that an OS needs to virtualize.

OS takes physical resources to transform them into a more general, powerful, and easy-to-use virtual form of it.
OS needs to virtualize CPU and memory.

2. Compile and run the threads.c code with input. Is the program more or less likely to compute the correct value as the size of the input increases? Briefly, explain why?

The program is less likely to compute the correct value as the size of the input increases because some instructions of the program do not run all at once.

3. State one piece of functionality common to all modern OSes. Describe a hardware feature that helps the OS to provide that functionality.

Turn on a computer. Power supply provide power to activate devices, such as, CPU, RAM and disk.