Activity Five Questions

1. What are the logical address and physical address in operating system?

* Logical Address is a virtual address created by the CPU
* Physical Address is the address available in the RAM/Memory

1. Expand TLB and explain.

* TLB (Translation lookaside buffer) is a cached memory which stores recently accessed pages

1. What is page number and frame number

* Page number is the number of pages and frame number is the frame number it is located in

1. Explain memory sharing in operating system.

* Memory sharing is when 2 processes needs to run at the same time the memory is shared between 2 processes

1. Write the benefits of threads

* It is lightweight
* It takes less time to create a thread than a process
* Less time to terminate
* Takes less time to switch between multiple threads
* Recourses can be shared between threads

1. Explain Mutual exclusion

* In concurrent process execution, 2 processes cannot occupy the critical section at any given time

1. Differentiate threads vs functions

* Threads can resume out of order, functions cannot
* Threads are asynchronous while functions call compiler to save state synchronously
* Multiple threads are allowed to run in the CPU, while functions are sequential

1. Address space of process vs threads

* In a process only one set of Register, counter, and stack is used for execution
* Every single thread has a Register, counter, and stack