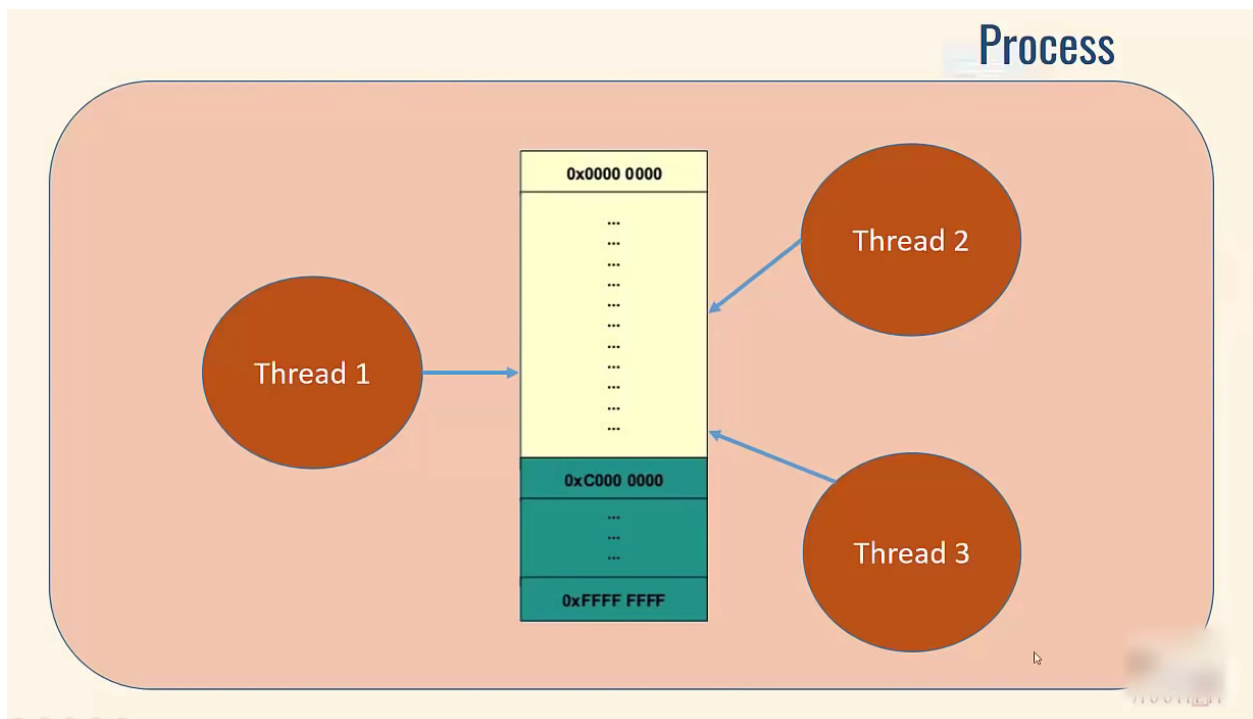# Video 3

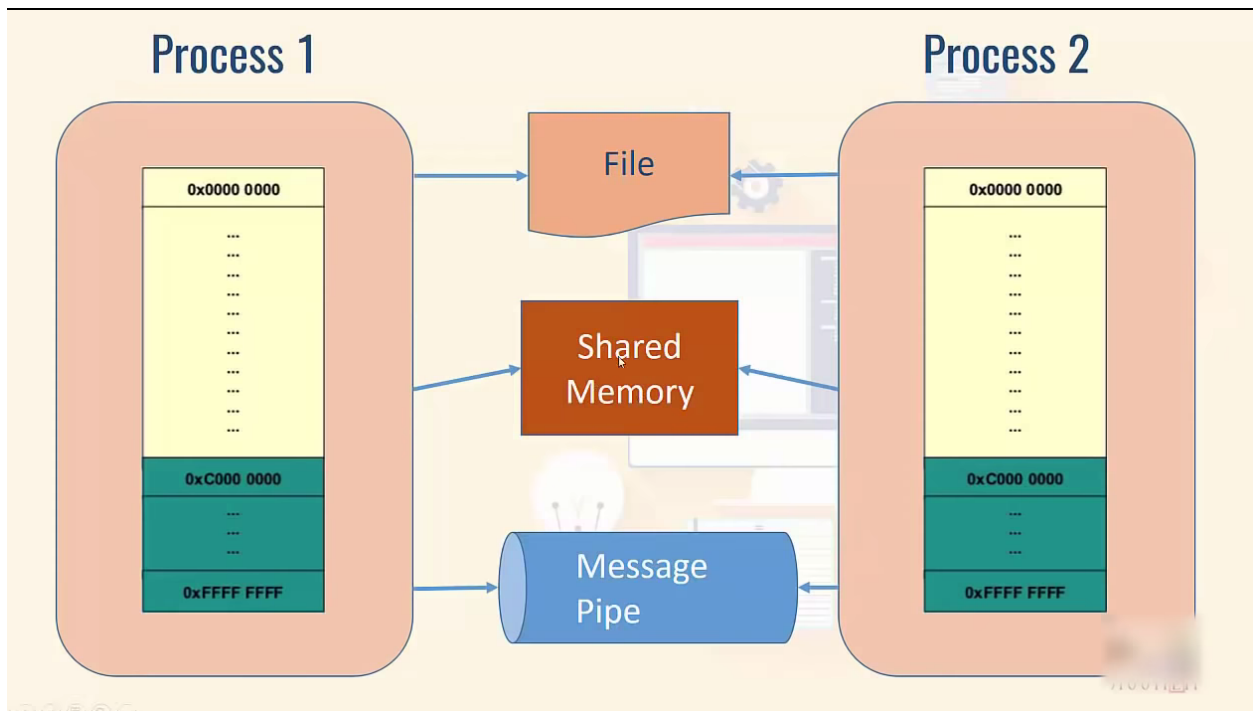**Difference between multiprocessing vs Multithreading:**

Both of these are ways to achieve multitasking, so what is multitasking when you are doing multiple tasks at the same time it called multitasking for example in below picture you can see a mom who takes care of babies, cooking food and calling at the same time

So what is Multiple threads

so the difference between thread and process is the thread will share the address within the virtual process and use that assigned virtual memory and the process will create a new virtual process.

so when we look at process they have their own address base and if ever they want to communicate with each other they can use enter process communication techniques such as a file or a shared memory or a message Pipe

Difference between thread and process

the key difference is threads are light weight and threads are heavy weight

Difference between thread and process

The benefit of multiprocessing is that error or memory leak in one process won't hurt execution of another process