Semaphores

- Semaphore is a variable whose value is one , its value decreases on acquire function to zero(lock) , and increases when release
- Semaphores are same as lock but one difference is that in semaphore 2 threads are allowed inside function at a time
- Thus, semaphores allow multiple threads
- If semaphore value is one then one thread will enter the function , if two then 2 values will enter
- If its value is zero no thread is allowed inside function , if the value is non-zero then that no.of threads are allowed inside the function
- If they are many threads then they'll wait in a queue
- Below is the program that allows 2 threads to enter a function at the same time