Using Semaphore to Provide Mutual Exclusion (Mutex) Solution

1. Identify all the shared resources in your program;

2. Identify all critical sections pertaining to shared variables;

3. Create a semaphore for each shared resource;

4. Initialize each semaphore to 1;

5. Put a *wait(semaphore)* right before entering the critical section related to the semaphore, a *signal(semaphore)* right after exiting the critical section.