

SENG2200/6220 –Programming Languages & Paradigms

Self-Quiz for Week 9, Semester 1, 2020

True/False Questions.

1. A process is a running program that it has isolated memory address space.
2. A thread is a section of a running program that it has isolated memory address space assigned by the program/process.
3. Semaphore supports simple signals to solve the resource sharing problems, and it guarantees that the deadlock and starvation problems will be avoided.
4. By using mutual exclusion, we can solve the bounded buffer problem.
5. Java synchronized keyword effectively enables the monitors.

Short-Answer Questions

6. What does the “counter” mean in the semaphore structure? What does it mean if the counter is initially 0, 1, 2, respectively?
7. What are the two ways to create a thread in Java?