1. A helicopter ride has five seats, and it always carries a full load. Use lock(s) and condition variable(s) to write a procedure PersonArrives(), which is called whenever a person (thread) arrives. Once the load is full, one person (thread) should call UpAndAway() (you don’t need to implement UpAndAway()), and five threads should return from PersonArrives(). There should be no undue waiting: the helicopter should depart as soon as it has a full load. (Hint: Consult the monitors presentation.)

2. What is a kernel module, and how is it different from the kernel?

3. Please list and explain the 2 commands necessary to load and unload kernel modules.