**Suggested Exercises for Chapter 1 of Event Based Programming**

1. Name five different event based systems with which you interact daily.
2. Pick one of your answers in #1 and
   1. What are the system’s events?
   2. What are the system’s control states?
3. Consider a cruise control system on a car:
   1. What are the system’s events?
   2. What are the system’s control states?
   3. What are the timing assumptions made about how fast the system must respond to events?
4. Pick your favorite word processor and answer the following questions:
   1. Does it have different modes of operation? What are they? For example, many word processors have both an insert mode and a type over mode.
   2. Does it use modal windows? For example, does it bring up a printing window that you must interact with whenever you choose to print?
   3. Should each modal window be considered as a separate control state? Why or why not?
   4. What events are involved if you try to replace an existing file by using

File – Save As?

* 1. Give an example where it uses event multiplexing (besides the File-Save and the Save icon discussed in the text).
  2. Does the system use event multicasting? If so, where?