Rami Bitar Lab 1 answers

3.1

1. Nulluser() is defined in initialize.c
2. The null process is created in sysinit() in initialize.c, it is called prnull with PID 0
3. No there is an infinite loop at the end of nulluser()
4. Becomes the Null process so there is always at least one running but the process itself does nothing
5. It calls the halt function
6. Seemingly nothing.
7. Yes it runs the same, at least to human perception

3.2

1. It freezes until it is called by resume
2. It creates a child process which then waits for the scheduler to start running
3. In Linux I believe the child starts running first
4. Create a process with create() and then put that inside a resume()
5. Xinu is incredibly basic and lacks several extra features that would make app writing easier
6. More inline with other operating systems

3.3

1. Done

3.4

1. When no processes remain the system will shut down
2. Alter the kill method to kill a group of processes all at once for a quicker shutdown procedure