1). Why do the system designers choose to include signals which are handled solely by the operating system?

- KILL and STOP signals cannot be caught or ignored, can guaranteed stop or kill the process once handled.

2). What benefit do we gain from using the pause system call as opposed to an infinite while loop?

- The pause function suspends program execution until a signal arrives whose action is either to execute a handler function, or to terminate the process. If the signal causes a handler function to be executed, then pause returns. Using pause without infinite while loop, the program will only catch signal once and then returns.

3). Why do we mask other signals while inside the signal handler?

- Only allow one signal work at a time to make sure the signal works from start to finish without being interrupted by other signals

4). When we implement the time out, we do not mask the SIGALAM signal, why?

- Because we need SIGALAM to catch the alarm signal and then exit the program if users do not response in 5 seconds