1. Explain one of the fundamental differences between signal( ) and sigaction( ) system calls.

The signal function does not block other signals from arriving while the current handler is executing, while sigaction can block other signals until the current handler return.

1. What is the purpose of the SIGKILL signal if it cannot be intercepted?

When SIGKILL signal is sent for a process, the kernel’s scheduler immediately terminates the process without giving any opportunity for the process to catch the signal. The SIGKILL signal is created as a security that is used to stop a process when other signal fails to stop the process.