Assignment 1

Q1.

* Zombie process : A process that has completed the execution (a process in Terminate state), but still has entry in the process table. This occurs for every child process where entry is required to allow parent to read child's exit status. The entry is removed after reading the exit status of child via wait system call.
* Orphan process : A process that is still executing, but whose parent died (exited) without wait for child process to finish execution. Such process is adopted by init process, which wait on its children and removes the entry when child becomes zombie.

Q2.

On the call of exec function from the child process

1. New process space is created when the fork() created the child process.
2. The exec() replaced the existing program in the process space with the new program called by exec().
3. The execution starts from the entry point of the new process.

Q3

We did peer programming , where we both programmed together to achieve the desired result. So the contribution from each member is 50%.

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