

Ans: Adam is working in a IT Company.  
He has been given a task to reduce  
the load of a system by killing some  
of the processes running in the Linux  
operating system which Adam will  
use to complete the given task with  
the help of the following operation.

- Kill Process by name
  - Kill a process based on the process name
  - Kill a single process at a time with the given process ID.
- ② ps -ef : To display all running process in a running system.
- ③ Kill all process name: Kill all running with given name.
- ④ kill -9 process - name: Kill process by matching the name or pattern.
- ⑤ kill pID: Safety terminates one specific process.
- ⑥ kill -9 : Selectively kill a process (use) when it is stuck.
- ⑦ sleep 300 s: To create a dummy process for testing.

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- ① Kill all sleep :- To terminate all process
  - child with the same name.
  - ② fork() and execve() function
  - fork() creates a new process and returns the process id.
    - execve() changes the process environment.
  - \* write a program like process creation
  - using C.
  - ③ orphan process
  - source code :- <http://www.rosenfeld.com/tutorials/ps/>
  - ④ :orphan process :- creates when the parent process terminates before the child process
  - the child process continue execution
    - and is adopted by the system.
  - ⑤ nohup.c :- To create and write a
  - C programs like cephos process.
  - ⑥ gcc cipher.c -o cipher :- To Compile
  - the C program.
  - ⑦ ./cipher :- To execute the Compiled
  - program.
  - ⑧ ps -ef | grep cipher :- To verify the
  - running cephos process.

- b) Zombie Process:-
- ① **Zombie process** :- Create when the child process terminates but the parent process does not call wait() - The child remains in the Zombie state until the parent exits.
  - ② **nono-Zombie** :- To create the Zombie process program.
  - ③ **gcc Zombie.c -o Zombie** :- To compile the Zombie program.
  - ④ **.1zombie** :- To execute the Zombie process program.
  - ⑤ **ps -el | grep Zombie** :- To check the Zombie process status.