**Ques 1: How to change the refresh time of the top command from 3 sec to 10 sec.**

**Ans:** Default Refresh time of top command is 3.0 sec to change it to 10 sec do the following.

* Type **top** in terminal this will show list of processes.
* Type **d.** It will display prompt line like

Change delay time from 3.0 to :

* Type 10 and then press **Enter**.

By following this we can change our refresh time.

**Ques 2: Identify the signal use to stop a process running in background.**

**Ans:**

1. kill –STOP % JOB\_ID

OR

1. kill –STOP PROCESS\_ID

**Ques 3: What is a difference between Concurrency and Parallelism?**

**Ans: Concurrency:**

Concurrency is essentially applicable when we talk about minimum two tasks or more. When an application is capable of executing two tasks virtually at same time, we call it concurrent application. Though here tasks run looks like simultaneously, but essentially they MAY not. They take advantage of **CPU time-slicing** feature of operating system where each task run part of its task and then go to waiting state. When first task is in waiting state, CPU is assigned to second task to complete it’s part of task. So, to end user, it seems that all tasks are running in parallel. This is called concurrency.

**Parallelism:**

Parallelism does not require two tasks to exist. It literally physically run parts of tasks OR multiple tasks, at the same time using multi-core infrastructure of CPU, by assigning one core to each task or sub-task.

Parallelism requires hardware with multiple processing units, essentially. In single core CPU, you may get concurrency but NOT parallelism.

**Ques 4: How the following code execute and display output.**

For(int i = 0 ; i < 4; i++){

Fork();

Printf(“Hello”);}

Printf(“Exit”);

**Ans: See image in next page**

