## Assignment #1

OS Lab #vivek Kumar(14cs01006)

Q1. CPU CORES: 2

Total memory: 2007822 KB

Free Memory Fraction: around (3/4)

context switches : ctext 2976454

processes has it forked since booting: 14920 times

Q2. bottleneck resource of process: command run (run code and top)

For all the four program given the bottleneck for all is :----CPU

Q3. program User kernel cpu 2126 0 cpu-print 135 577

./cpu take more time in user mode but cpu-print take more in kernel mode

Q4. cpu voluntary\_ctxt\_switches: 2 nonvoluntary\_ctxt\_switches: 6822

disk voluntary\_ctxt\_switches: 24316 nonvoluntary\_ctxt\_switches: 4232

reason:: in cpu no i/o use but in disk i/o used

Q5. Pid: 1480

command used : pstree

Q6. ./cpu-print > /tmp/tmp.txt &----- descriptor information

pid: 2148

lrwx----- 1 root root 64 Jan 16 11:02 0 -> /dev/pts/1

I-wx----- 1 root root 64 Jan 16 11:02 1 -> /root/Downloads/tmp.txt

Irwx----- 1 root root 64 Jan 16 11:02 2 -> /dev/pts/1

Q7. ./cpu-print > /tmp/tmp.txt &-- descriptor information

Irwx----- 1 root root 64 Jan 16 11:15 0 -> /dev/pts/1

I-wx----- 1 root root 64 Jan 16 11:15 1 -> pipe:[16596]

Irwx----- 1 root root 64 Jan 16 11:15 2 -> /dev/pts/1