

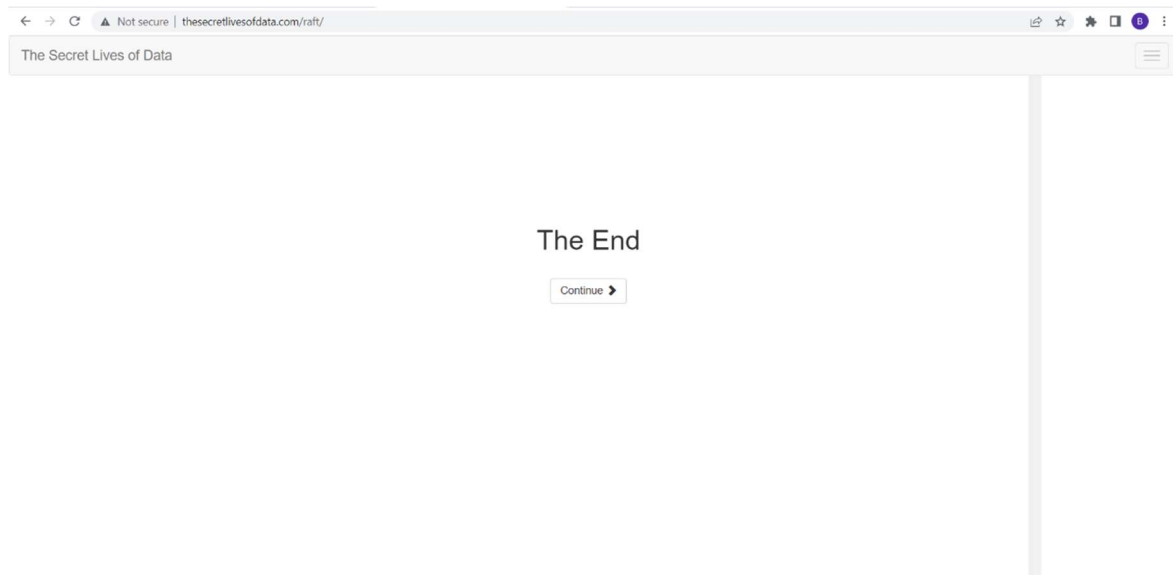
Consensus Algorithms: Raft

Name – B Pravena

Section – B

SRN - PES2UG19CS076

1a)



1b)

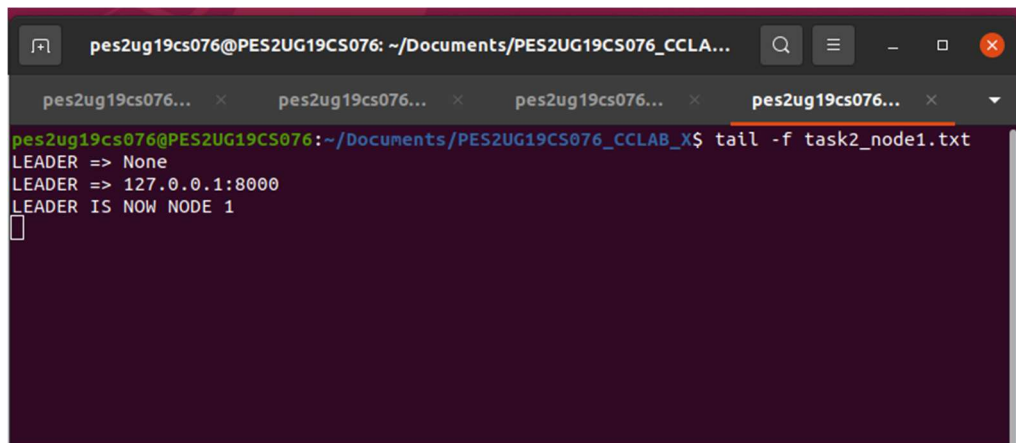
```
pes2ug19cs076@PES2UG19CS076: ~/Documents/PES2UG19CS076_CCLAB_...
Best match: cffi 1.15.0
Processing cffi-1.15.0-cp38-cp38-manylinux_2_12_x86_64.manylinux2010_x86_64.whl
Installing cffi-1.15.0-cp38-cp38-manylinux_2_12_x86_64.manylinux2010_x86_64.whl to /usr/local/lib/python3.8/dist-packages
Adding cffi 1.15.0 to easy-install.pth file

Installed /usr/local/lib/python3.8/dist-packages/cffi-1.15.0-py3.8-linux-x86_64.egg
Searching for pycparser
Reading https://pypi.org/simple/pycparser/
Downloading https://files.pythonhosted.org/packages/62/d5/5f610ebe421e85889f2e55e33b7f9a6795bd982198517d912eb1c76e1a53/pycparser-2.21-py2.py3-none-any.whl#sha256=8ee4542955515e1f6b185e78100aea234072576aa43ab53aefcae078162fca9
Best match: pycparser 2.21
Processing pycparser-2.21-py2.py3-none-any.whl
Installing pycparser-2.21-py2.py3-none-any.whl to /usr/local/lib/python3.8/dist-packages
Adding pycparser 2.21 to easy-install.pth file

Installed /usr/local/lib/python3.8/dist-packages/pycparser-2.21-py3.8.egg
Searching for six==1.14.0
Best match: six 1.14.0
Adding six 1.14.0 to easy-install.pth file

Using /usr/lib/python3/dist-packages
Finished processing dependencies for raftos==0.2.6
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X/raftos$
```

2a)



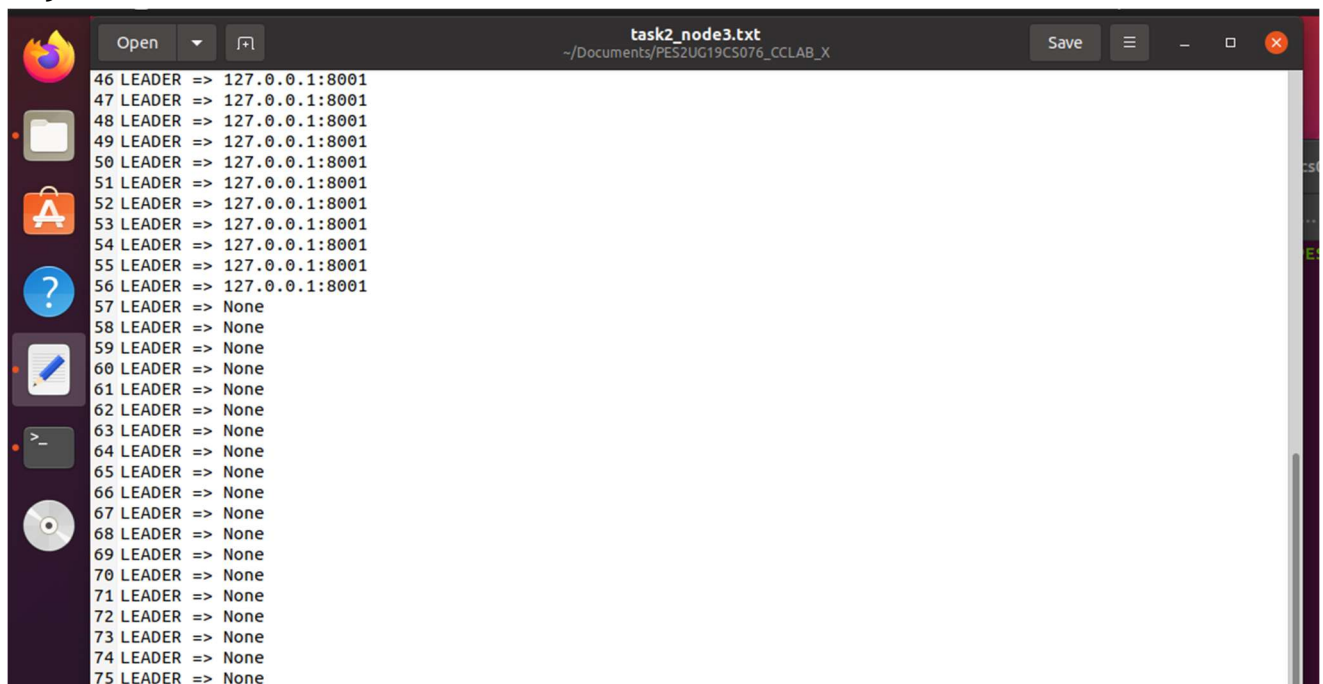
```
pes2ug19cs076@PES2UG19CS076: ~/Documents/PES2UG19CS076_CCLA...  
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$ tail -f task2_node1.txt  
LEADER => None  
LEADER => 127.0.0.1:8000  
LEADER IS NOW NODE 1
```

2b)



```
task2_node2.txt  
~/Documents/PES2UG19CS076_CCLAB_X  
1 LEADER => 127.0.0.1:8000  
2 LEADER => 127.0.0.1:8000  
3 LEADER => 127.0.0.1:8000  
4 LEADER => 127.0.0.1:8000  
5 LEADER => 127.0.0.1:8000  
6 LEADER => 127.0.0.1:8000  
7 LEADER => 127.0.0.1:8000  
8 LEADER => 127.0.0.1:8000  
9 LEADER => 127.0.0.1:8000  
10 LEADER => 127.0.0.1:8000  
11 LEADER => 127.0.0.1:8000  
12 LEADER => 127.0.0.1:8000  
13 LEADER => 127.0.0.1:8000  
14 LEADER => 127.0.0.1:8000  
15 LEADER => 127.0.0.1:8000  
16 LEADER => 127.0.0.1:8001  
17 LEADER IS NOW NODE 2
```

2c)



```
task2_node3.txt  
~/Documents/PES2UG19CS076_CCLAB_X  
46 LEADER => 127.0.0.1:8001  
47 LEADER => 127.0.0.1:8001  
48 LEADER => 127.0.0.1:8001  
49 LEADER => 127.0.0.1:8001  
50 LEADER => 127.0.0.1:8001  
51 LEADER => 127.0.0.1:8001  
52 LEADER => 127.0.0.1:8001  
53 LEADER => 127.0.0.1:8001  
54 LEADER => 127.0.0.1:8001  
55 LEADER => 127.0.0.1:8001  
56 LEADER => 127.0.0.1:8001  
57 LEADER => None  
58 LEADER => None  
59 LEADER => None  
60 LEADER => None  
61 LEADER => None  
62 LEADER => None  
63 LEADER => None  
64 LEADER => None  
65 LEADER => None  
66 LEADER => None  
67 LEADER => None  
68 LEADER => None  
69 LEADER => None  
70 LEADER => None  
71 LEADER => None  
72 LEADER => None  
73 LEADER => None  
74 LEADER => None  
75 LEADER => None
```

3a)

```

pes2ug19cs076@PES2UG19CS076: ~/Documents/PES2UG19CS076_CCLAB_X
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$ cat *.log
{"term": 3, "command": {"data_id": 1}}
{"term": 3, "command": {"data_id": 1}}
{"term": 6, "command": {"data_id": 3}}
{"term": 3, "command": {"data_id": 1}}
{"term": 6, "command": {"data_id": 3}}
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$ cat *.state_machine
{"data_id": 1}{ "data_id": 3}{ "data_id": 3}pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$ cat *.storage
pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$ cat *.storage
{"term": 3, "voted_for": "127.0.0.1:8000"}{"term": 73, "voted_for": null}{ "term": 6, "voted_for": "127.0.0.1:8002"}pes2ug19cs076@PES2UG19CS076:~/Documents/PES2UG19CS076_CCLAB_X$

```

3b)

[illegible]

