

CC ASSIGNMENT - 4

NAME : Anushka Pandey

SRN : PES1UG20CS072

Sec. : B

1 A)

```
syncLimit = 2pes1ug20cs072@pes1ug20cs072:/opt/apache-zookeeper-3.8.0-bin$ bin/zkServer.sh start
ZooKeeper JMX enabled by default
Using config: /opt/apache-zookeeper-3.8.0-bin/bin/../conf/zoo.cfg
Starting zookeeper ... STARTED
pes1ug20cs072@pes1ug20cs072:/opt/apache-zookeeper-3.8.0-bin$ █
```

2 A)

```
[zk: localhost:2181(CONNECTED) 3] create -s /PES1UG20CS072_seq "PES1UG20CS072_seq"
Created /PES1UG20CS072_seq0000000004
[zk: localhost:2181(CONNECTED) 4] create -e /PES1UG20CS072_eph "PES1UG20CS072_eph"
Created /PES1UG20CS072_eph
[zk: localhost:2181(CONNECTED) 5] ls /
[PES1UG20CS072_eph, PES1UG20CS072_seq0000000004, zookeeper]
[zk: localhost:2181(CONNECTED) 6]
```

2 B)

WATCHER::

```
WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] ls /
[PES1UG20CS072_seq0000000004, zookeeper]
[zk: localhost:2181(CONNECTED) 1] █
```

2 C)

```
[zk: localhost:2181(CONNECTED) 2] get -s /PES1UG20CS072_seq0000000004
PES1UG20CS072_seq
cZxid = 0x12
ctime = Sat Mar 25 23:56:13 IST 2023
mZxid = 0x12
mtime = Sat Mar 25 23:56:13 IST 2023
pZxid = 0x12
cversion = 0
dataVersion = 0
aclVersion = 0
ephemeralOwner = 0x0
dataLength = 17
numChildren = 0
[zk: localhost:2181(CONNECTED) 3] █
```

2 D)

```
[zk: localhost:2181(CONNECTED) 14] create /PES1UG20CS072
Created /PES1UG20CS072
[zk: localhost:2181(CONNECTED) 15] create /PES1UG20CS072/"Anushka"
Created /PES1UG20CS072/"Anushka"
[zk: localhost:2181(CONNECTED) 16] create /PES1UG20CS072/"Pandey"
Created /PES1UG20CS072/"Pandey"
[zk: localhost:2181(CONNECTED) 17] ls /PES1UG20CS072
["Anushka", "Pandey"]
[zk: localhost:2181(CONNECTED) 18] █
```

3 A)

```
2023-03-26 00:31:42,449 [myid:] - INFO [main:o.a.z.s.DataTree@1705] - The digest in the snapshot has digest version of 2, with zxid as 0x2, and digest value as 1371985504
2023-03-26 00:31:42,463 [myid:] - INFO [main:o.a.z.a.ZKAuditProvider@42] - ZooKeeper audit is disabled.
2023-03-26 00:31:42,481 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@372] - 33 txns loaded in 28 ms
2023-03-26 00:31:42,482 [myid:] - INFO [main:o.a.z.s.ZKDatabase@289] - Snapshot loaded in 78 ms, highest zxid is 0x23, digest is 13172795029
2023-03-26 00:31:42,488 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@479] - Snapshotting: 0x23 to /opt/apache-zookeeper-3.8.0-bin/d
ata/version-2/snapshot.23
2023-03-26 00:31:42,489 [myid:] - INFO [main:o.a.z.s.ZooKeeperServer@547] - Snapshot taken in 1 ms
2023-03-26 00:31:42,510 [myid:] - INFO [ProcessThread(sid:0 cport:2181)::o.a.z.s.PreRequestProcessor@138] - PreRequestProcessor (s
id:0) started, reconfigEnabled=false
2023-03-26 00:31:42,511 [myid:] - INFO [main:o.a.z.s.RequestThrottler@75] - zookeeper.request_throttler.shutdownTimeout = 10000 ms
2023-03-26 00:31:42,544 [myid:] - INFO [main:o.a.z.s.ContainerManager@84] - Using checkIntervalMs=60000 maxPerMinute=10000 maxNeverU
sedIntervalMs=0
2023-03-26 00:32:03,902 [myid:] - INFO [SyncThread:0:o.a.z.s.p.FileTxnLog@285] - Creating new log file: log.24

[zk: localhost:2181(CONNECTED) 0] create /PES1UG20CS072
Node already exists: /PES1UG20CS072
[zk: localhost:2181(CONNECTED) 1] create /pes1ug20cs072
Created /pes1ug20cs072
[zk: localhost:2181(CONNECTED) 2] create -s -e /pes1ug20cs072/candidate
Created /pes1ug20cs072/candidate0000000000
[zk: localhost:2181(CONNECTED) 3] ls /pes1ug20cs072
[candidate0000000000]
[zk: localhost:2181(CONNECTED) 4] ls /pes1ug20cs072
[candidate0000000000, candidate0000000001, candidate0000000002]
[zk: localhost:2181(CONNECTED) 5]

[o.a.z.ClientCnxn$SendThread@1444] - Session establishment complete on server localhost/127.0.0.1:2181, session id = 0x1000098df920001, negotiated timeout = 30000
WATCHER::
WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] create -s -e /pes1ug20cs072/candidate
Created /pes1ug20cs072/candidate0000000001
[zk: localhost:2181(CONNECTED) 1] ls /pes1ug20cs072
[candidate0000000000, candidate0000000001, candidate0000000002]
[zk: localhost:2181(CONNECTED) 2]

[zk: localhost:2181(CONNECTED) 0] create -s -e /pes1ug20cs072/candidate
Created /pes1ug20cs072/candidate0000000002
[zk: localhost:2181(CONNECTED) 1] ls /pes1ug20cs072
[candidate0000000000, candidate0000000001, candidate0000000002]
[zk: localhost:2181(CONNECTED) 2]

[0] 0:bash* "pes1ug20cs072" 00:37 26-Mar-23
```

3B)

```
2023-03-26 00:31:42,449 [myid:] - INFO [main:o.a.z.s.DataTree@1705] - The digest in the snapshot has digest version of 2, with zxid
as 0x2, and digest value as 1371985504
2023-03-26 00:31:42,463 [myid:] - INFO [main:o.a.z.a.ZKAuditProvider@42] - ZooKeeper audit is disabled.
2023-03-26 00:31:42,481 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@372] - 33 txns loaded in 28 ms
2023-03-26 00:31:42,482 [myid:] - INFO [main:o.a.z.s.ZKDatabase@289] - Snapshot loaded in 78 ms, highest zxid is 0x23, digest is 131
72795029
2023-03-26 00:31:42,488 [myid:] - INFO [main:o.a.z.s.p.FileTxnSnapLog@479] - Snapshotting: 0x23 to /opt/apache-zookeeper-3.8.0-bin/d
ata/version-2/snapshot.23
2023-03-26 00:31:42,489 [myid:] - INFO [main:o.a.z.s.ZooKeeperServer@547] - Snapshot taken in 1 ms
2023-03-26 00:31:42,510 [myid:] - INFO [ProcessThread(sid:0 cport:2181)::o.a.z.s.PrepareRequestProcessor@138] - PrepareRequestProcessor (s
id:0) started, reconfigEnabled=false
2023-03-26 00:31:42,511 [myid:] - INFO [main:o.a.z.s.RequestThrottler@75] - zookeeper.request_throttler.shutdownTimeout = 10000 ms
2023-03-26 00:31:42,544 [myid:] - INFO [main:o.a.z.s.ContainerManager@84] - Using checkIntervalMs=60000 maxPerMinute=10000 maxNeverU
sedIntervalMs=0
2023-03-26 00:32:03,902 [myid:] - INFO [SyncThread:0:o.a.z.s.p.FileTxnLog@285] - Creating new log file: log.24

ndThread.run(ClientCnxn.java:1282)
WATCHER::
WatchedEvent state:Closed type:None path:null
2023-03-26 00:41:46,876 [myid:] - INFO [main
:o.a.z.ZooKeeper@1232] - Session: 0x1000098df
920000 closed
2023-03-26 00:41:46,877 [myid:] - INFO [main
-EventThread:0.a.z.ClientCnxn$EventThread@568
] - EventThread shut down for session: 0x1000
098df920000
2023-03-26 00:41:46,878 [myid:] - ERROR [main
:o.a.z.u.ServiceUtils@42] - Exiting JVM with
code 0
pesiug20cs072@pesiug20cs072:/opt/apache-zoo
keeper-3.8.0-bin$
[0] 0:bash*

[zk: localhost:2181(CONNECTED) 2] ls /pesiu
g20cs072
[candidate00000000002]
[zk: localhost:2181(CONNECTED) 3] █
```

3C)

```
2023-03-26 00:32:03,902 [myid:] - INFO [SyncThread:0:o.a.z.s.p.FileTxnLog@285] - Creating new log file: log.24

otiated timeout = 30000
JLine support is enabled
WATCHER::
WatchedEvent state:SyncConnected type:None pa
th:null
[zk: localhost:2181(CONNECTED) 0] ls /pesiug2
0cs072
[candidate00000000002]
[zk: localhost:2181(CONNECTED) 1] create -s -
e /pesiug20cs072/candidate
Created /pesiug20cs072/candidate00000000003
[zk: localhost:2181(CONNECTED) 2] ls /pesiug2
0cs072
[candidate00000000002, candidate00000000003]
[zk: localhost:2181(CONNECTED) 3] █

[zk: localhost:2181(CONNECTED) 2] ls /pesiu
g20cs072
[candidate00000000002]
[zk: localhost:2181(CONNECTED) 3] █

WatchedEvent state:Closed type:None path:nu
ll
2023-03-26 00:42:39,398 [myid:] - INFO [ma
in:o.a.z.ZooKeeper@1232] - Session: 0x10000
98df920001 closed
2023-03-26 00:42:39,399 [myid:] - INFO [ma
in-EventThread:0.a.z.ClientCnxn$EventThread
@568] - EventThread shut down for session:
0x1000098df920001
2023-03-26 00:42:39,400 [myid:] - ERROR [ma
in:o.a.z.u.ServiceUtils@42] - Exiting JVM w
ith code 0
pesiug20cs072@pesiug20cs072:/opt/apache-zoo
keeper-3.8.0-bin$

"pesiug20cs072" 00:45 26-Mar-23
```