

Task 1:

Create a kafka topic named KeyLessTopic.

Inside KeyLessTopic insert following data:

```
{"name":"John", "exp":16}  
{"name":"Finn", "exp":20}  
{"name":"Cylin", "exp":18}  
{"name":"Mark", "exp":2}  
{"name":"Akshay", "exp":14}
```

Task 2:

Create a console consumer that reads KeyLessTopic from beginning

COMMAND:-

(i) \$KAFKA_HOME/bin/zookeeper-server-start.sh \$KAFKA_HOME/config/zookeeper.properties

(ii) \$KAFKA_HOME/bin/kafka-server-start.sh \$KAFKA_HOME/config/server.properties

(iii) jps

(iv) \$KAFKA_HOME/bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

(v) \$KAFKA_HOME/bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic

```
{"name":"John", "exp":16}  
{"name":"Finn", "exp":20}  
{"name":"Cylin", "exp":18}  
{"name":"Mark", "exp":2}  
{"name":"Akshay", "exp":14}
```

(vi) \$KAFKA_HOME/bin/kafka-console-consumer.sh --topic KeyLessTopic from-beginning \\
--zookeeper localhost:2181 \\
--property print.key=true

EXPLANATION:-

(i) start the zookeeper .

(ii) start the kafka.

(iii) check the QuorumPeerMain and kafka start or not.

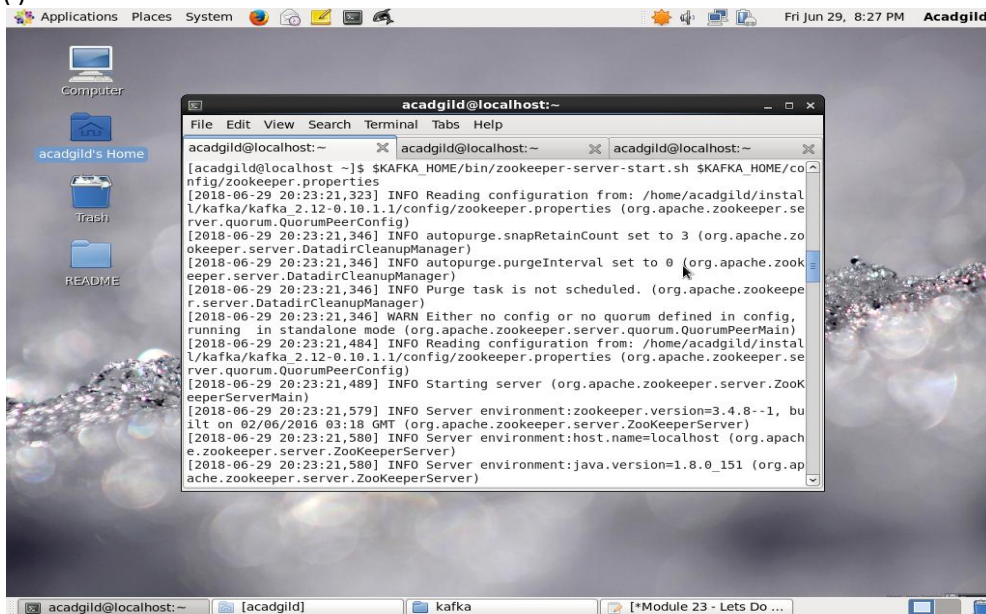
(iv) create the topic "KeyLessTopic".

(v) start the producer and put the following datas.

(vi) start the consumer and see the following datas at consumer side.

OUTPUT:-

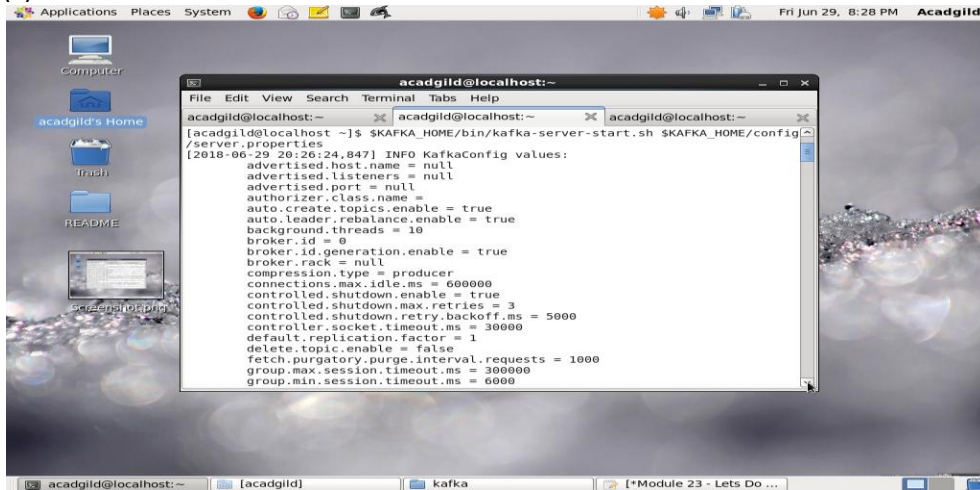
(i)



A terminal window titled 'acadgild@localhost:~' displays the output of the command `$KAFKA_HOME/bin/zookeeper-server-start.sh $KAFKA_HOME/config/zookeeper.properties`. The logs show the Zookeeper server starting in standalone mode. Key log entries include: 'INFO Reading configuration from: /home/acadgild/install/kafka/kafka-2.12-0.10.1.1/config/zookeeper.properties', 'INFO autopurge.snapRetainCount set to 3', 'INFO autopurge.purgeInterval set to 0', 'WARN Either no config or no quorum defined in config, running in standalone mode', and 'INFO Starting server'. The server environment is also displayed, showing Zookeeper version 3.4.8-1 and Java version 1.8.0_151.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ $KAFKA_HOME/bin/zookeeper-server-start.sh $KAFKA_HOME/config/zookeeper.properties  
[2018-06-29 20:23:21,323] INFO Reading configuration from: /home/acadgild/install/kafka/kafka-2.12-0.10.1.1/config/zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)  
[2018-06-29 20:23:21,346] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DataDirCleanupManager)  
[2018-06-29 20:23:21,346] INFO autopurge.purgeInterval set to 0 (org.apache.zookeeper.server.DataDirCleanupManager)  
[2018-06-29 20:23:21,346] INFO Purge task is not scheduled. (org.apache.zookeeper.server.DataDirCleanupManager)  
[2018-06-29 20:23:21,346] WARN Either no config or no quorum defined in config, running in standalone mode (org.apache.zookeeper.server.quorum.QuorumPeerMain)  
[2018-06-29 20:23:21,484] INFO Reading configuration from: /home/acadgild/install/kafka/kafka-2.12-0.10.1.1/config/zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)  
[2018-06-29 20:23:21,489] INFO Starting server (org.apache.zookeeper.server.ZooKeeperServerMain)  
[2018-06-29 20:23:21,579] INFO Server environment:zookeeper.version=3.4.8-1, built on 02/06/2016 03:18 GMT (org.apache.zookeeper.server.ZooKeeperServer)  
[2018-06-29 20:23:21,580] INFO Server environment:host.name=localhost (org.apache.zookeeper.server.ZooKeeperServer)  
[2018-06-29 20:23:21,580] INFO Server environment:java.version=1.8.0_151 (org.apache.zookeeper.server.ZooKeeperServer)
```

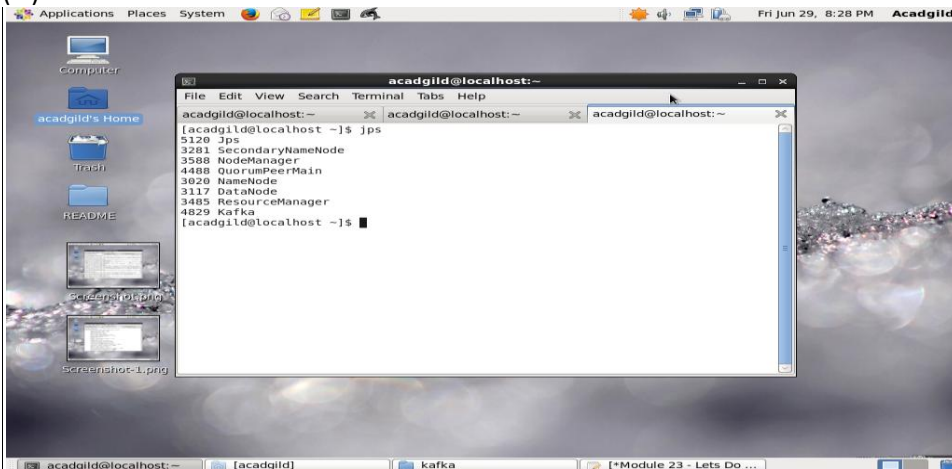
(ii)



A terminal window titled 'acadgild@localhost:~' displays the output of the command `$KAFKA_HOME/bin/kafka-server-start.sh $KAFKA_HOME/config/server.properties`. The logs show the KafkaConfig values for the server. Key log entries include: 'INFO KafkaConfig values:', 'advertised.host.name = null', 'advertised.listeners = null', 'advertised.port = null', 'authorizer.class.name = null', 'auto.create.topics.enable = true', 'auto.leader.rebalance.enable = true', 'background.threads = 10', 'broker.id = 0', 'broker.id.generation.enable = true', 'broker.rack = null', 'compression.type = producer', 'connections.max.idle.ms = 600000', 'controlled.shutdown.enable = true', 'controlled.shutdown.max.retries = 3', 'controlled.shutdown.retry.backoff.ms = 5000', 'controller.socket.timeout.ms = 30000', 'default.replication.factor = 1', 'delete.topic.enable = false', 'fetch.purgatory.purge.interval.requests = 1000', 'group.max.session.timeout.ms = 300000', and 'group.min.session.timeout.ms = 6000'.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ $KAFKA_HOME/bin/kafka-server-start.sh $KAFKA_HOME/config/server.properties  
[2018-06-29 20:26:24,847] INFO KafkaConfig values:  
advertised.host.name = null  
advertised.listeners = null  
advertised.port = null  
authorizer.class.name = null  
auto.create.topics.enable = true  
auto.leader.rebalance.enable = true  
background.threads = 10  
broker.id = 0  
broker.id.generation.enable = true  
broker.rack = null  
compression.type = producer  
connections.max.idle.ms = 600000  
controlled.shutdown.enable = true  
controlled.shutdown.max.retries = 3  
controlled.shutdown.retry.backoff.ms = 5000  
controller.socket.timeout.ms = 30000  
default.replication.factor = 1  
delete.topic.enable = false  
fetch.purgatory.purge.interval.requests = 1000  
group.max.session.timeout.ms = 300000  
group.min.session.timeout.ms = 6000
```

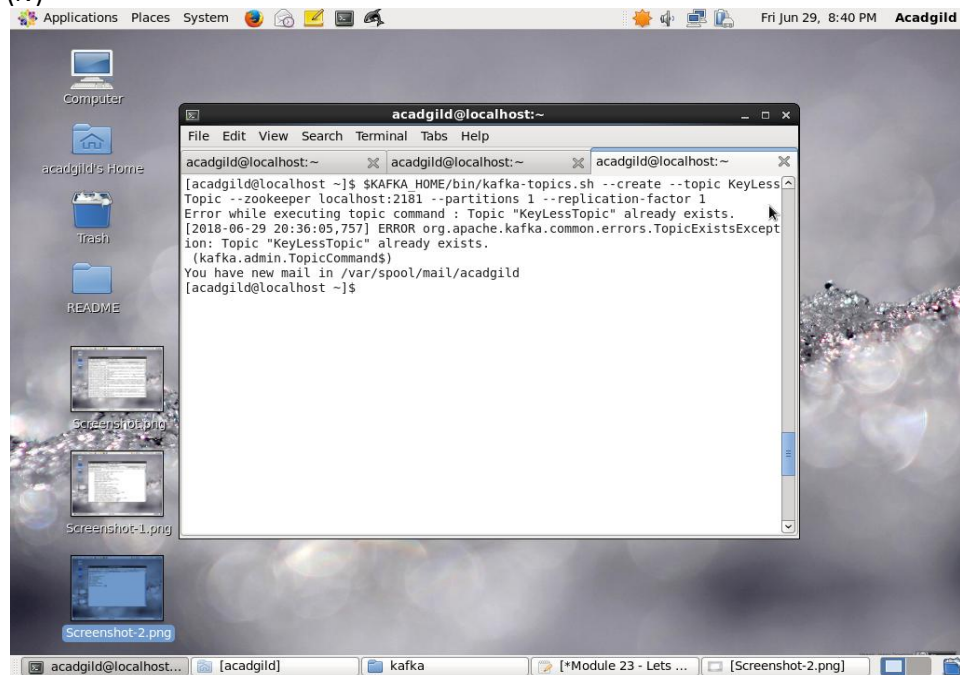
(iii)



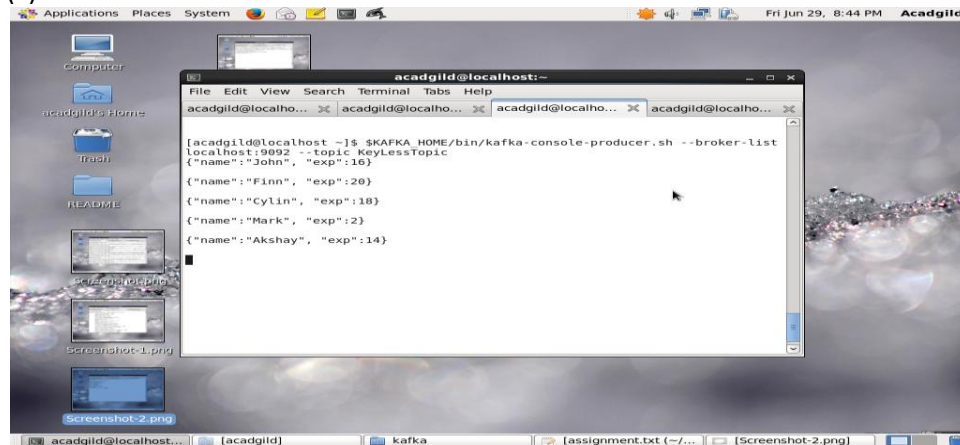
A terminal window titled 'acadgild@localhost:~' displays the output of the command `jps`. The output shows the following processes running: '5120 Jps', '3281 SecondaryNameNode', '3588 NodeManager', '4488 QuorumPeerMain', '3020 NameNode', '3117 DataNode', '3485 ResourceManager', and '4829 Kafka'. The terminal also shows the prompt `acadgild@localhost ~$`.

```
acadgild@localhost:~  
[acadgild@localhost ~]$ jps  
5120 Jps  
3281 SecondaryNameNode  
3588 NodeManager  
4488 QuorumPeerMain  
3020 NameNode  
3117 DataNode  
3485 ResourceManager  
4829 Kafka  
[acadgild@localhost ~]$
```

(iv)



(v)



(vi)

