Starting Hadoop server
a) check which processes are using jps
b) Format Name Node
c) start Hadoop processes
d) Use HDFs web interface to monitor Hadoop cluster.

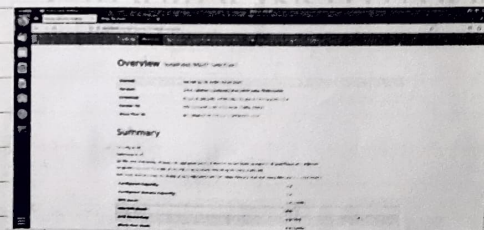a) check which processes are using jps.
   To check the processor, we have direct command "jps"
command:
    hadoop@cmrcet-virtual-machine:~$ jps

b) Format NameNode
   To check the Namenode. use following command,
command.
    hadoop@cmrcet-virtual-machine:~$ hdfs namenode-format

1. Then type the localhost:9870/ in browser.

a) output

```
hadoop@cmrcet-virtual-machine:~$ jps
3552 SecondaryNameNode
20771 Jps
3175 NameNode
20281 ResourceManager
20427 NodeManager
```

b) output

```
hadoop@cmrcet-virtual-machine:~$ hdfs namenode-format
/home/hadoop/hadoop/libexec/hadoop-functions.sh: line 2300: HDFS_NAMENODE_FORMAT_USER: invalid variable name
ERROR: namenode-format is not COMMAND nor fully qualified CLASSNAME.
Usage: hdfs [OPTIONS] SUBCOMMAND [SUBCOMMAND OPTIONS]

 OPTIONS is none or any of:

--buildpaths             attempt to add class files from build tree
--config dir             Hadoop config directory
--daemon (start|status|stop)  operate on a daemon
--debug                  turn on shell script debug mode
--help                   usage information
--hostnames list[,of,host,names]  hosts to use in worker mode
--hosts filename         list of hosts to use in worker mode
--loglevel level         set the log4j level for this command
--workers                turn on worker mode

 SUBCOMMAND is one of:

    Admin Commands:

cacheadmin       configure the HDFS cache
crypto           configure HDFS encryption zones
debug            run a Debug Admin to execute HDFS debug commands
dfsadmin         run a DFS admin client
dfsrouteradmin   run a DFS Router-based Federation
ec               run a HDFS ErasureCoding CLI
fsck             run a DFS filesystem checking utility
haadmin          run a DFS HA admin client
jmxget           get JMX exported values from NameNode or DataNode.
oev              apply the offline edits viewer to an edits file
oiv              apply the offline fsimage viewer to an fsimage
oiv_legacy       apply the offline fsimage viewer to a legacy fsimage
storagepolicies  list/get/set/satisfyStoragePolicy block storage policies

    Client Commands:

classpath        prints the class path needed to get the hadoop jar and
                 the required libraries
dfs              run a filesystem command on the file system
envvars          display computed Hadoop environment variables
fetchdt          fetch a delegation token from the NameNode
getconf          get config values from configuration
groups           get the groups which users belong to
lsSnapshottableDir  list all snapshottable dirs owned by the current user
snapshotDiff     diff two snapshots of a directory or diff the current
                 directory contents with a snapshot
version          print the version
```
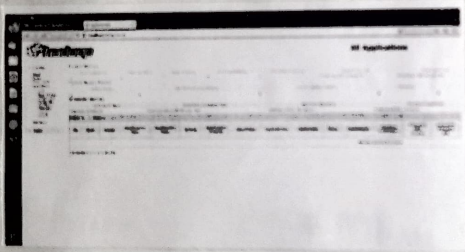
c)

Start-dfs output

```
hadoop@cmrcet-virtual-machine:-$ start-dfs.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [cmrcet-virtual-machine]
```

yarn site output

```
hadoop@cmrcet-virtual-machine:-$ start-yarn.sh
Starting resourcemanager
Starting nodemanagers
```

d) output

c) start Hadoop processes.

To start hadoop process, we need to start yarn and dfs site

Command :

hadoop@cmrcet-virtual-machine~$ start-dfs.sh

Command :

hadoop@cmrcet-virtual-machine~$ start-yarn.sh

d) use HDFS Web interface to monitor Hadoop cluster

type "localhost : 8088/" in browser to monitor Hadoop cluster.