

CSP – 554 Big Data Technologies

Assignment #2

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- [illegible]

- ### Question 9

```

hadoop@ip-172-31-11-164:~$
[getfattr [-R] [-n name [-d] [-e] en] [-p] [-m] [-s] [-t] [-l] [-d] [-o] [-R] [-t] [-S] [-r] [-u] [-p] [-a] ...]
[help [cmd ...]]
[-s [-c] [-d] [-b] [-a] [-R] [-t] [-S] [-r] [-u] [-p] [-a] ...]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotID> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] <src> ...]
[-rmrdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [[-b|-k] [-m|-x <acl_spec>] <paths>][[-set <acl_spec>] <paths>]]
[-setfattr [-n name [-v value] | -x name] <paths>]
[-setrep [-R] [-m] <rep> <paths> ...]
[-stat [format] <paths> ...]
[-tail [-f] <files>]
[-test [-dftz] <paths>]
[-text [-ignorecrc] <src> ...]
[-touchz <paths> ...]
[-truncate [-w] <length> <paths> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>          specify an application configuration file
-D <property=value>                  define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <localResourceManager:port>      specify a ResourceManager
-files <file1, ...>                   specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1, ...>                 specify a comma-separated list of jar files to be included in the classpath
--archives <archive1, ...>           specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
(hadoop@ip-172-31-11-164 ~)$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /apps
drwxrwxrwt - hdfs hdfsadmingroup 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /apps
drwxrwxrwt - hdfs hdfsadmingroup 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup 0 2021-09-08 17:30 /user/hadoop
drwxr-xr-x - hmapred mapred 0 2021-09-08 17:30 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user/hive
drwxrwxrwx - hue hue 0 2021-09-08 17:30 /user/hue
drwxrwxrwx - oozie oozie 0 2021-09-08 17:32 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2021-09-08 17:30 /user/root
[hadoop@ip-172-31-11-164 ~]$

```

Question 10

```
hadoop@ip-172-31-11-164:~$
[getfattr [-R] [-n name | -d] [-e en] <path>]
[getmerge [-n]] [-skip-empty-file] <src> <localdst>]
[help [cmd ...]]
[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] <src> ...]
[-rmdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [[-b|-k] [-m|-x <acl_spec>] <path>][[--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] <path>]
[-setrep [-R] [-w] <rep> <path> ...]
[-stat [format] <path> ...]
[-tail [-f] <files>]
[-test [-dfs2] <path>]
[-text [-ignoreCrc] <src> ...]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local|resourceManager:port> specify a ResourceManager
-files <file1, ...>              specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1, ...>            specify a comma-separated list of jar files to be included in the classpath
-archives <archive1, ...>       specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls
Found 4 items
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /apps
drwxrwxrwt - hdfs hdfsadmingroup 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
/apps /tmp /user /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /apps
drwxrwxrwt - hdfs hdfsadmingroup 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup 0 2021-09-08 17:30 /user/hadoop
drwxr-xr-x - mapred mapred 0 2021-09-08 17:30 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user/hive
drwxrwxrwx - hue hue 0 2021-09-08 17:30 /user/hue
drwxrwxrwx - oozie oozie 0 2021-09-08 17:32 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2021-09-08 17:30 /user/root
[hadoop@ip-172-31-11-164 ~]$
```

Question 11

```
hadoop@ip-172-31-11-164:~$
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user
drwxr-xr-x - hdfs hdfsadmingroup 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup 0 2021-09-08 17:30 /user/hadoop
drwxr-xr-x - mapred mapred 0 2021-09-08 17:30 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2021-09-08 17:30 /user/hive
drwxrwxrwx - hue hue 0 2021-09-08 17:30 /user/hue
drwxrwxrwx - oozie oozie 0 2021-09-08 17:32 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2021-09-08 17:30 /user/root
[hadoop@ip-172-31-11-164 ~]$ hadoop fs
Usage: hadoop fs [generic options]
[-appendToFile <localsrc> ... <dst>]
[-cat [-ignoreCrc] <src> ...]
[-checksum <src> ...]
[-chgrp [-R] GROUP PATH...]
[-chmod [-R] <mode>[,<mode>]... [OCTALMODE] PATH...]
[-chown [-R] [OWNER][[:GROUP]] PATH...]
[-copyFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-copyToLocal [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-count [-q] [-h] [-t] [-s] <storage type>] [-u] [-x] <path> ...]
[-cp [-f] [-p] [-l] [-topaz]] [-d] <src> ... <dst>]
[-createSnapshot <snapshotDir> [<snapshotName>]]
[-deleteSnapshot <snapshotDir> [<snapshotName>]]
[-df [-h] <path> ...]
[-du [-s] [-h] [-x] <path> ...]
[-expunge]
[-find <path> ... <expressions> ...]
[-get [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-getfacl [-R] <path>]
[-getfattr [-R] [-n name | -d] [-e en] <path>]
[-getmerge [-n]] [-skip-empty-file] <src> <localdst>]
[-help [cmd ...]]
[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] <src> ...]
[-rmdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [[-b|-k] [-m|-x <acl_spec>] <path>][[--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] <path>]
[-setrep [-R] [-w] <rep> <path> ...]
[-stat [format] <path> ...]
[-tail [-f] <files>]
[-test [-dfs2] <path>]
[-text [-ignoreCrc] <src> ...]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local|resourceManager:port> specify a ResourceManager
-files <file1, ...>              specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1, ...>            specify a comma-separated list of jar files to be included in the classpath
-archives <archive1, ...>       specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$
```

Question 12

```
hadoop@ip-172-31-11-164:~$
[copyFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[copyToLocal [-f] [-p] [-ignorecrc] [-crc] <src> ... <localdst>]
[-count [-q] [-h] [-j] [-s] <storage type>] [-u] [-x] <path> ...]
[-cp [-f] [-p] [-l] [-topax]] [-d] <src> ... <dst>]
[-createSnapshot <snapshotDir> [<snapshotName>]]
[-deleteSnapshot <snapshotDir> [<snapshotName>]]
[-df [-h] <path> ...]
[-du [-s] [-h] [-x] <path> ...]
[-expunge]
[-find <path> ... <expression> ...]
[-get [-f] [-p] [-ignorecrc] [-crc] <src> ... <localdst>]
[-getfacl [-R] <path>]
[-getfattr [-R] [-n name | -d] [-e en] <path>]
[-getmerge [-n]] [-skip-empty-file] <src> <localdst>]
[-help [cmd ...]]
[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] <path> ...]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] <src> ...]
[-rmrdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [[-b|-k] [-m|-x <acl_spec>] <path>][--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] <path>]
[-setrep [-R] [-w] <rep> <path> ...]
[-stat [format] <path> ...]
[-tail [-f] <file>]
[-test [-defsz] <path>]
[-text [-ignorecrc] <src> ...]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local/ResourceManager:port> specify a ResourceManager
-files <file1,...>               specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1,...>              specify a comma-separated list of jar files to be included in the classpath
-archives <archive1,...>        specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutumehta.txt /user/csp554/
cp: /home/hadoop/rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutumehta.txt /user/csp554/
cp: rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -A rutumehta.txt /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 13

```
hadoop@ip-172-31-11-164:~$
[copyFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[copyToLocal [-f] [-p] [-ignorecrc] [-crc] <src> ... <localdst>]
[-count [-q] [-h] [-j] [-s] <storage type>] [-u] [-x] <path> ...]
[-cp [-f] [-p] [-l] [-topax]] [-d] <src> ... <dst>]
[-createSnapshot <snapshotDir> [<snapshotName>]]
[-deleteSnapshot <snapshotDir> [<snapshotName>]]
[-df [-h] <path> ...]
[-du [-s] [-h] [-x] <path> ...]
[-expunge]
[-find <path> ... <expression> ...]
[-get [-f] [-p] [-ignorecrc] [-crc] <src> ... <localdst>]
[-getfacl [-R] <path>]
[-getfattr [-R] [-n name | -d] [-e en] <path>]
[-getmerge [-n]] [-skip-empty-file] <src> <localdst>]
[-help [cmd ...]]
[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] <path> ...]
[-mkdir [-p] <path> ...]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv <src> ... <dst>]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] <src> ...]
[-rmrdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [[-b|-k] [-m|-x <acl_spec>] <path>][--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] <path>]
[-setrep [-R] [-w] <rep> <path> ...]
[-stat [format] <path> ...]
[-tail [-f] <file>]
[-test [-defsz] <path>]
[-text [-ignorecrc] <src> ...]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local/ResourceManager:port> specify a ResourceManager
-files <file1,...>               specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1,...>              specify a comma-separated list of jar files to be included in the classpath
-archives <archive1,...>        specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutumehta.txt /user/csp554/
cp: /home/hadoop/rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutumehta.txt /user/csp554/
cp: rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -A rutumehta.txt /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 14

```
hadoop@ip-172-31-11-164:~$
[createSnapshot <snapshotDir> [<snapshotName>]]
[deleteSnapshot <snapshotDir> [<snapshotName>]]
[-df [-h] [<path> ...]]
[-du [-h] [-x] [<path> ...]]
[-expunge]
[-find [<path> ... <expressions> ...]]
[-get [-f] [-p] [-ignoreCrc] [-crc] [<src> ... <localdst>]
[-getfacl [-n] [<path>]]
[-getfattr [-R] [-n name | -d] [-e en] [<path>]]
[-getmerge [-n]] [-skip-empty-file] [<src> <localdst>]
[-help [cmd ...]]
[-ls [-c] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]]
[-mkdir [-p] [<path> ...]]
[-moveFromLocal <localsrc> ... <dst>]
[-moveToLocal <src> <localdst>]
[-mv [<src> ... <dst>]]
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] [<src> ...]]
[-rmrdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [-b] [-k] [-m] <acl_spec> [<path>][[--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] [<path>]]
[-setrep [-R] [-w] [<rep> <path> ...]]
[-stat [format] [<path> ...]]
[-tail [-f] <files>]
[-test [-dfs2] [<path>]]
[-text [-ignoreCrc] [<src> ...]]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local|resource|manager:port> specify a ResourceManager
-files <file1,...>              specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1,...>             specify a comma-separated list of jar files to be included in the classpath
-archives <archive1,...>        specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutulmehta.txt /user/csp554/
cp: /home/hadoop/rutulmehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutulmehta.txt /user/csp554/
cp: rutulmehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -Acutlmehta.txt /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /user/csp554/rutulmehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 15

```
hadoop@ip-172-31-11-164:~$
[-put [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
[-renameSnapshot <snapshotDir> <oldName> <newName>]
[-rm [-f] [-r] [-R] [-skipTrash] [-safely] [<src> ...]]
[-rmrdir [--ignore-fail-on-non-empty] <dir> ...]
[-setfacl [-R] [-b] [-k] [-m] <acl_spec> [<path>][[--set <acl_spec> <path>]]
[-setfattr [-n name [-v value] | -x name] [<path>]]
[-setrep [-R] [-w] [<rep> <path> ...]]
[-stat [format] [<path> ...]]
[-tail [-f] <files>]
[-test [-dfs2] [<path>]]
[-text [-ignoreCrc] [<src> ...]]
[-touchz <path> ...]
[-truncate [-w] <length> <path> ...]
[-usage [cmd ...]]

Generic options supported are:
-conf <configuration file>      specify an application configuration file
-D <property=value>             define a value for a given property
-fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
-jt <local|resource|manager:port> specify a ResourceManager
-files <file1,...>              specify a comma-separated list of files to be copied to the map reduce cluster
-libjars <jar1,...>             specify a comma-separated list of jar files to be included in the classpath
-archives <archive1,...>        specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutulmehta.txt /user/csp554/
cp: /home/hadoop/rutulmehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutulmehta.txt /user/csp554/
cp: rutulmehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -Acutlmehta.txt /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutulmehta.txt /user/csp554/
-copyFromLocal -copyToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /user/csp554/rutulmehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ aws s3 cp s3://a20476293-csp554/A20476293.txt /home/hadoop/A20476293.txt
download: s3://a20476293-csp554/A20476293.txt to ./A20476293.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop/A20476293.txt
ls: /home/hadoop/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop
ls: /home/hadoop: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /apps
drwxrwxrwt - hdfs hdfsadmin group 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 20:54 /user
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ ls
A20476293.txt rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ ls /home/hadoop
A20476293.txt rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 16

```
hadoop@ip-172-31-11-164:~$ touchz <path> ...
hadoop@ip-172-31-11-164:~$ truncate [-w] <length> <path> ...
hadoop@ip-172-31-11-164:~$ usage [cmd ...]

Generic options supported are:
  -conf <configuration file>      specify an application configuration file
  -D <property=value>             define a value for a given property
  -fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
  -jt <local/ResourceManager:port> specify a ResourceManager
  -files <file1,....>             specify a comma-separated list of files to be copied to the map reduce cluster
  -libjars <jar1,...>            specify a comma-separated list of jar files to be included in the classpath
  -archives <archive1,...>       specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutumehta.txt /user/csp554/
cp: /home/hadoop/rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutumehta.txt /user/csp554/
cp: rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -A rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /user/csp554/rutumehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ aws s3 cp s3://a20476293-csp554/A20476293.txt /home/hadoop/A20476293.txt
download: s3://a20476293-csp554/A20476293.txt to ./A20476293.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop/A20476293.txt
ls: /home/hadoop/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop
ls: /home/hadoop: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /apps
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 20:54 /user
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ ls
A20476293.txt rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ ls /home/hadoop
A20476293.txt rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
cp: No FileSystem for scheme "hdfs"
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
21/09/08 21:36:34 INFO s3n.S3NativeFileSystem: Opening 's3://a20476293-csp554/A20476293.txt' for reading
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmin group 21 2021-09-08 21:36 /user/csp554-2/A20476293.txt
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 17

```
hadoop@ip-172-31-11-164:~$ touchz <path> ...
hadoop@ip-172-31-11-164:~$ truncate [-w] <length> <path> ...
hadoop@ip-172-31-11-164:~$ usage [cmd ...]

Generic options supported are:
  -conf <configuration file>      specify an application configuration file
  -D <property=value>             define a value for a given property
  -fs <file:///hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.
  -jt <local/ResourceManager:port> specify a ResourceManager
  -files <file1,....>             specify a comma-separated list of files to be copied to the map reduce cluster
  -libjars <jar1,...>            specify a comma-separated list of jar files to be included in the classpath
  -archives <archive1,...>       specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutumehta.txt /user/csp554/
cp: /home/hadoop/rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutumehta.txt /user/csp554/
cp: rutumehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -A rutumehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copy rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal rutumehta.txt /user/csp554/
-copiedFromLocal -copiedToLocal
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /user/csp554/rutumehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ aws s3 cp s3://a20476293-csp554/A20476293.txt /home/hadoop/A20476293.txt
download: s3://a20476293-csp554/A20476293.txt to ./A20476293.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop/A20476293.txt
ls: /home/hadoop/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop
ls: /home/hadoop: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /apps
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:32 /tmp
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 20:54 /user
drwxr-xr-x - hdfs hdfsadmin group 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ ls
A20476293.txt rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ ls /home/hadoop
A20476293.txt rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
cp: No FileSystem for scheme "hdfs"
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
21/09/08 21:36:34 INFO s3n.S3NativeFileSystem: Opening 's3://a20476293-csp554/A20476293.txt' for reading
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmin group 21 2021-09-08 21:36 /user/csp554-2/A20476293.txt
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutumehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat file:///A20476293.txt
cat: file:///A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat A20476293.txt
cat: A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat user/csp554/A20476293.txt
cat: user/csp554/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat user/csp554-2/A20476293.txt
cat: user/csp554-2/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat /user/csp554-2/A20476293.txt
this is the id file
[hadoop@ip-172-31-11-164 ~]$
```


Question18

```
hadoop@ip-172-31-11-164:~$
The general command line syntax is:
command [genericOptions] [commandOptions]

[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutulmehta.txt /user/csp554/
cp: '/home/hadoop/rutulmehta.txt': No such file or directory
[hadoop@ip-172-31-11-164 ~]$ ls
rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp rutulmehta.txt /user/csp554/
cp: rutulmehta.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /home/hadoop/rutulmehta.txt /user/csp554
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal /home/hadoop/rutulmehta.txt /user/csp554/
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal /home/hadoop/rutulmehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -copyFromLocal /home/hadoop/rutulmehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:07 /user/csp554/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp /user/csp554/rutulmehta.txt /user/csp554-2
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ aws s3 cp s3://a20476293-csp554/A20476293.txt /home/hadoop/A20476293.txt
download: s3://a20476293-csp554/A20476293.txt to /A20476293.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop/A20476293.txt
ls: '/home/hadoop/A20476293.txt': No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop
ls: '/home/hadoop': No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x 2 hdfs hdfsadmin group 0 2021-09-08 17:30 /apps
drwxrwxrwt 2 hdfs hdfsadmin group 0 2021-09-08 17:32 /tmp
drwxr-xr-x 2 hdfs hdfsadmin group 0 2021-09-08 20:54 /user
drwxr-xr-x 2 hdfs hdfsadmin group 0 2021-09-08 17:30 /var
[hadoop@ip-172-31-11-164 ~]$ ls
A20476293.txt rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /home/hadoop
A20476293.txt rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
cp: No FileSystem for scheme "hdfs"
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cp s3://a20476293-csp554/A20476293.txt hdfs:///user/csp554-2
21/09/08 21:36:34 INFO s3n.S3NativeFileSystem: Opening 's3://a20476293-csp554/A20476293.txt' for reading
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmin group 21 2021-09-08 21:36 /user/csp554-2/A20476293.txt
-rw-r--r-- 1 hadoop hdfsadmin group 23 2021-09-08 21:12 /user/csp554-2/rutulmehta.txt
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat file:///A20476293.txt
cat: file:///A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat A20476293.txt
cat: A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat user/csp554/A20476293.txt
cat: user/csp554/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat user/csp554-2/A20476293.txt
cat: user/csp554-2/A20476293.txt: No such file or directory
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -cat /user/csp554-2/A20476293.txt
this is the id file
[hadoop@ip-172-31-11-164 ~]$ hadoop fs -rm hdfs:///user/csp554-2/A20476293.txt
Deleted hdfs:///user/csp554-2/A20476293.txt
[hadoop@ip-172-31-11-164 ~]$
```

Question 19

I terminated cluster and deleted all the buckets by following the step 7