## Part1 & Part2:

```
xiao@a-10-27-0-69 \sim % ssh xm2074@peel.hpc.nyu.edu
xm2074@peel.hpc.nyu.edu's password:
Last failed login: Mon Feb 7 15:39:14 EST 2022 from 10.27.0.69 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Mon Feb 7 15:38:20 2022 from 10.27.0.69
[xm2074@hlog-1 \sim]$ hadoop fs -ls /
Found 4 items
drwxr-xr-x - hbase hbase
                                         0 2022-01-13 11:09 /hbase
                                         0 2021-01-15 18:01 /solr
[drwxrwxr-x - solr solr
drwxrwxrwt - hdfs supergroup
                                         0 2022-01-21 14:10 /tmp
drwxr-xr-x - hdfs supergroup
                                         0 2022-02-07 14:42 /user
[xm2074@hlog-1 \sim]$ hadoop fs -ls
[xm2074@hlog-1 \sim]$ hadoop fs -ls /user/xm2074
[xm2074@hlog-1 \sim] hadoop fs -mkdir lab1
[xm2074Qhlog-1 \sim]$ hadoop fs -ls
Found 1 items
drwxrwx---+ - xm2074 xm2074
                                      0 2022-02-07 15:40 lab1
[[xm2074@hlog-1 ~]$
[xm2074@hlog-2 ~]$ touch /scratch/xm2074/data.txt
```

```
[[xm2074@hlog-2 ~]$ hadoop fs -put /scratch/yourNetID/data.txt lab1
put: `/scratch/yourNetID/data.txt': No such file or directory
[xm2074@hlog-2 ~]$ hadoop fs -put /scratch/xm2074/data.txt lab1
[xm2074@hlog-2 ~]$ hadoop fs -ls lab1
Found 1 items
-rw-rw---+ 3 xm2074 xm2074 0 2022-02-
[[xm2074@hlog-2 ~]$ hadoop fs -cat lab1/data.txt
                                               0 2022-02-07 22:57 lab1/data.txt
[xm2074@hlog-2 ~]$ hadoop fs -rm -r lab1
22/02/07 22:57:42 INFO fs.TrashPolicyDefault: Moved: 'hdfs://horton.hpc.nyu.edu:
8020/user/xm2074/lab1' to trash at: hdfs://horton.hpc.nyu.edu:8020/user/xm2074/.
Trash/Current/user/xm2074/lab1
[xm2074@hlog-2 ~]$ hadoop fs -ls
Found 3 items
drwx----+ - xm2074 xm2074
drwxrwx---+ - xm2074 xm2074
-rw-rw----+ 3 xm2074 xm2074
[xm20740hlog-2 ~1$ ■
                                               0 2022-02-07 22:57 .Trash
                                              0 2022-02-07 21:53 .sparkStaging
                                              0 2022-02-07 21:40 data.txt
```

## Part3:

scala> sc. accumulable defaultMinPartitions isStopped runApproximateJob accumulableCollection defaultParallelism runJob jars killExecutor accumulator deployMode sequenceFile addFile doubleAccumulator killExecutors setCallSite setCheckpointDir addJar killTaskAttempt emptyRDD addSparkListener files listFiles setJobDescription appName getAllPools listJars setJobGroup applicationAttemptId getCheckpointDir longAccumulator setLocalProperty applicationId getConf makeRDD setLogLevel binaryFiles getExecutorMemoryStatus sparkUser master binaryRecords getLocalProperty newAPIHadoopFile startTime newAPIHadoopRDD broadcast getPersistentRDDs statusTracker cancelAllJobs getPoolForName objectFile stop cancelJob getRDDStorageInfo parallelize submitJob cancelJobGroup getSchedulingMode range textFile cancelStage hadoopConfiguration register uiWebUrl hadoopFile clearCallSite removeSparkListener union hadoopRDD clearJobGroup requestExecutors version collectionAccumulator isLocal requestTotalExecutors wholeTextFiles scala> sc.version res0: String = 2.4.0-cdh6.3.4 [scala> val myConstant: Int = 2437 myConstant: Int = 2437[scala> myConstant res1: Int = 2437scala> myConstant. ceil isInfinity isWhole toBinaryString toOctalString % & toRadians compare isNaN longValue toByte compareTo isNegInfinity toChar toShort max isPosInfinity doubleValue unary\_+ >= min toDegrees isValidByte floatValue >> round toDouble unary\_unary\_~ underlying >>> floor isValidChar self toFloat getClass isValidInt shortValue toHexString isValidLong abs intValue signum toInt until byteValue isInfinite isValidShort to toLong

```
scala> myConstant.to
                                                               toOctalString
to
                  toBvte
                           toDegrees
                                       toFloat
                                                      toInt
                                                                                toShort
toBinaryString
                 toChar
                           toDouble
                                       toHexString
                                                      toLong
                                                               toRadians
                                                                                toString
[scala> myConstant.toFloat
res2: Float = 2437.0
[scala> myConstant
res3: Int = 2437
[scala> myConstant.toFloat.toInt
res4: Int = 2437
[scala> val myString = myConstant.toString
myString: String = 2437
[scala> :type myString
String
```

[scala> :q [xm2074@hlog-1 ~]\$