

# coreservlets.com – Hadoop Course

## HDFS Java API

In this exercise, you will have a chance to develop code that copies files to and from HDFS. You will utilize Hadoop's Java API.

**Approx Time: 45 minutes**

### **Perform**

1. Develop Java code that will copy files from HDFS to local filesystem. Your requirements are:
  - a. Copy files from HDFS directory `'/training/exercises/filesystem/'`
  - b. Copy files to local directory `'/home/hadoop/Training/play_area/exercises/filesystem/e1'`
  - c. Only copy text files. In other words, only files that end with `.txt`
2. Develop Java code that will copy file from local filesystem to HDFS. Your requirements are:
  - a. Copy text files from local directory `'/home/hadoop/Training/play_area/exercises/filesystem/e2/'` (files that end with `.txt`)
  - b. Copy files to HDFS directory `'/training/playArea/filesystem/e2'`
  - c. Report status to the screen by printing dots: `'...'`

## Solution

1. Provided two possible solutions:

Code: `hdfs.javaAPI.Exercise1.java`

To Run: `yarn jar $PLAY_AREA/Solutions.jar hdfs.javaAPI.Exercise1`

or

Code: `hdfs.javaAPI.Exercise1a.java`

To Run: `yarn jar $PLAY_AREA/Solutions.jar hdfs.javaAPI.Exercise1a`

2. Code: `hdfs.javaAPI.Exercise2.java`

To Run: `yarn jar $PLAY_AREA/Solutions.jar hdfs.javaAPI.Exercise2`