# Data Generator

It’s a java based program to generate stock information file in the csv format of specified filesize.

csv file contains stock information in following format:

STOCK, ASK\_PRICE, BID\_PRICE, OPEN\_PRICE, CLOSE\_PRICE, VOLUME, DATE

Stock Data for following 200 stocks will be created:

"APPL","GOOGL","MOTO","YAHO","REDF","SNY","DELL","SMSNG","ORCL","MTOR",

"ABB","AEE","IX","MRT","MPW","MED","MCC","MCV","MCX","MDLX",

"OHI","OMC","OMN","OOMA","OPY","ORCL","ORAN","OA","OEC","ORN",

"JMM","NHA","NXJ","NNY","NAN","NNC","ODC","ORI","OMAA","JLS",

"AFB","JHY","JHD","JHB","NXC","NXN","NID","NUM","NMS","NOM",

"AEG","PGEM","JCE","JCO","JQC","JDD","JFR","NKG","JGH","JHA",

"ADT","ADNT","POST","NAT","JWN","NOA","NWE","NCLH","NAC","NTC",

"ANET","PES","MAV","MHI","PXD","PJC","PAA","PLNT","PLT","PAH",

"AMN","PTY","PCN","PCI","PFL","PFN","PMF","PML","PMX","PNF",

"PM","FENG","DOC","PDM","PIR","PCK","PGTI","PHH","PBR","SEND",

"RSO","QSR","REV","REVG","RXN","RH","RBA","RAD","RIO","SSL",

"AOD","COO","RUBI","THR","TMO","TCRZ","TIER","TIF","TSU","TKR",

"AZUL","GIM","THC","TNC","TEN","TEX","TTI","TEVA","TPL","TX",

"ABT","ANF","ABBV","AAN","AAP","ASX","ASIX","TEF","TDA","TDE",

"LCM","ACM","AVK","HIVE","MITT","AGCO","AFL","NIE","NCZ","DDD",

"BABA","ALE","AOI","LNT","CBH","NCV","ADS","ALL","ALSN","NFJ",

"MMM","WUBA","ATEN","AAC","COLD","AMN","APU","AWK","WAGE","HCC",

"HCC","WPG","WBC","STAG","SSI","SMP","SXI","SWK","SWP","",

"STO","SPLP","SCS","SCA","STL","SF","SFB","EDI","STOR","STON",

"SUI","SMLP","SUM","GJO","SMFG","INN","SYK","EDF","GJO","SRI",

"SUN","SHO","TPR","TGT","TCO","TTM","TOO","GCI","TGNA","TRC",

All the information in each row is randomly generated. Date is generated between range 1-1-2000 to 1-1-2018

## How to build:

It’s a maven based project. To build simply go inside project directory and run: mvn verify

customer@node1:~$ cd tariq/DataGenerator/

customer@node1:~/tariq/DataGenerator$

customer@node1:~/tariq/DataGenerator$ mvn verify

[INFO] Scanning for projects...

[INFO]

[INFO] ------------------------------------------------------------------------

[INFO] Building DataGenerator 1.0.0-SNAPSHOT

[INFO] ------------------------------------------------------------------------

[INFO]

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ DataGenerator ---

[WARNING] Using platform encoding (ISO-8859-1 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] skip non existing resourceDirectory /home/customer/tariq/DataGenerator/src/main/resources

[INFO]

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ DataGenerator ---

[INFO] Changes detected - recompiling the module!

[WARNING] File encoding has not been set, using platform encoding ISO-8859-1, i.e. build is platform dependent!

[INFO] Compiling 10 source files to /home/customer/tariq/DataGenerator/target/classes

[WARNING] /home/customer/tariq/DataGenerator/src/DataThread.java: /home/customer/tariq/DataGenerator/src/DataThread.java uses or overrides a deprecated API.

[WARNING] /home/customer/tariq/DataGenerator/src/DataThread.java: Recompile with -Xlint:deprecation for details.

[INFO]

[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ DataGenerator ---

[WARNING] Using platform encoding (ISO-8859-1 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] skip non existing resourceDirectory /home/customer/tariq/DataGenerator/src/test/resources

[INFO]

[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ DataGenerator ---

[INFO] No sources to compile

[INFO]

[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ DataGenerator ---

[INFO]

[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ DataGenerator ---

[INFO] Building jar: /home/customer/tariq/DataGenerator/target/DataGenerator-1.0.0-SNAPSHOT.jar

[INFO] ------------------------------------------------------------------------

[INFO] BUILD SUCCESS

[INFO] ------------------------------------------------------------------------

[INFO] Total time: 3.931 s

[INFO] Finished at: 2018-02-11T01:27:43-06:00

[INFO] Final Memory: 17M/204M

[INFO] ------------------------------------------------------------------------

customer@node1:~/tariq/DataGenerator$

## Binary created

An executable jar file is created as a result of maven build.

## How to run

Go to target dir & run: java -jar DataGenerator\*.jar <output filesize in Gb>

Argument provided: filesize of output file created in terms of Gb. It can be a float as well e.g 0.01 will work too. Default filesize is 1G.

customer@node1:~/tariq/ DataGenerator $ cd target/

customer@node1:~/tariq/ DataGenerator /target$

customer@node1:~/tariq/ DataGenerator /target$ java -jar DataGenerator\*.jar 0.01

## Result

A newfile “output.csv” is created in the same directory with stock information having a filesize equal to argument provided.