```
1
               package com.cognizant.spring_learn;
   2
   3
               import org.slf4j.Logger;
               import org.slf4j.LoggerFactory;
   5
               import org.springframework.boot.SpringApplication;
               import org.springframework.boot.autoconfigure.SpringBootApplication;
   6
   7
   8
               @SpringBootApplication
  9 🗸
               public class SpringLearnApplication {
 10
                              private static final Logger LOGGER = LoggerFactory.getLogger(SpringLearnApplication.cla
 11
 12 🗸
                              public static void main(String[] args) {
 13
 14
                                             SpringApplication.run(SpringLearnApplication.class, args);
 15
                                              LOGGER.info("START - SpringLearnApplication main()");
 16
 17
                                              LOGGER.info("END - SpringLearnApplication main()");
                package com.cognizant.spring learn;
1
2
3
                import org.junit.jupiter.api.Test;
4
                import org.springframework.boot.test.context.SpringBootTest;
5
                @SpringBootTest
6
7

∨ class SpringLearnApplicationTests {
8
9
                                     @Test
                                     void contextLoads() {
9
1
      --- jar:3.4.2:jar (default-jar) @ spring-learn ---
Building jar: F:\Cognizant Digital Nurture\MySolutions\Cognizant Digital Nurture 4.8 Weekly Submissions\week 4\handson 1\spring-learn\target\spring-learn-0.0.1-SNAPSHOT.jar
      --- spring-boot:3.5.3:repackage (repackage) @ spring-learn ---
Replacing main artifact F:\Cognizant Digital Murture\MySolutions\Cognizant Digital Murture 4.8 Weekly Submissions\week 4\handson 1\spring-learn\target\spring-learn-0.8.1-SNM
for with repackaged archive, adding nested dependencies in 8001-1NF/.
The original artifact has been renemed to F:\Cognizant Digital Murture\MySolutions\Cognizant Digital Murture 4.0 Weekly Submissions\week 4\handson 1\spring-learn\target\spring-0.0.1-SNAPSNOT.jar.original
     --- install:3.1.4:install (default-install) @ spring-learn ---
| Installing F:\Cognizent Digital Murture\WySolutions\Cognizent Digital Murture 4.0 Weekly Submissions\week 4\handson 1\spring-learn\pom.xml to C:\Users\win 10\.m2\repository

ggmizant\spring-learn\0.0.1-SMAPSHOT\spring-learn-0.0.1-SMAPSHOT bigital Murture 4.0 Weekly Submissions\week 4\handson 1\spring-learn\target\spring-learn\target\spring-learn-0.0.1-SMAPSHOT.jar to

Installing F:\Cognizent Digital Murture\%YSolutions\Cognizent Digital Murture 4.0 Weekly Submissions\week 4\handson 1\spring-learn\target\spring-learn-0.0.1-SMAPSHOT.jar

rs\win 18\.m2\repository\com\cognizent\spring-learn\0.8.1-SMAPSHOT\spring-learn-0.0.1-SMAPSHOT.jar
      Total time: 12.608 s
Finished at: 2025-07-12T09:28:47+05:30
```

```
C. Noverskaps 201_imsster 201_
```

```
1
         package com.cognizant.spring_learn;
 2
 3
         import org.junit.jupiter.api.Test;
 4
         import org.springframework.boot.test.context.SpringBootTest;
 5
 6
         @SpringBootTest
 7
         class SpringLearnApplicationTests {
 8
 9
                  @Test
10
                  void contextLoads() {
11
12
13
         }
32
        set -euf
33
        [ "${MVNW_VERBOSE-}" != debug ] | set -x
34
35
        # OS specific support.
36
        native_path() { printf %s\\n "$1"; }
37
        case "$(uname)" in
        CYGWIN* | MINGW*)
38
          [ -z "${JAVA_HOME-}" ] | JAVA_HOME="$(cygpath --unix "$JAVA_HOME")"
39
40
          native_path() { cygpath --path --windows "$1"; }
41
          ;;
42
        esac
43
        # set JAVACMD and JAVACCMD
44
       set_java_home() {
45
          # For Cygwin and MinGW, ensure paths are in Unix format before anything is touched
46
          if [ -n "${JAVA_HOME-}" ]; then
47
48
            if [ -x "$JAVA_HOME/jre/sh/java" ]; then
              # IBM's JDK on AIX uses strange locations for the executables
49
              JAVACMD="$JAVA_HOME/jre/sh/java"
50
              JAVACCMD="$JAVA HOME/jre/sh/javac"
51
51
             JAVACCMD="$JAVA_HOME/jre/sh/javac"
52
             JAVACMD="$JAVA HOME/bin/java"
53
             JAVACCMD="$JAVA HOME/bin/javac"
54
55
             if [ ! -x "$JAVACMD" ] || [ ! -x "$JAVACCMD" ]; then
56
               echo "The JAVA_HOME environment variable is not defined correctly, so mvnw cannot run."
57
               echo "JAVA_HOME is set to \"$JAVA_HOME\", but \"\$JAVA_HOME/bin/java\" or \"\$JAVA_HOME
58
59
               return 1
60
             fi
           fi
61
         else
62
           JAVACMD="$(
63
64
             'set' +e
65
             'unset' -f command 2>/dev/null
             'command' -v java
66
           )" || :
67
           JAVACCMD="$(
68
69
             'set' +e
```

```
68
            JAVACCMD="$(
 69
              'set' +e
 70
              'unset' -f command 2>/dev/null
 71
              'command' -v javac
            )" || :
 72
 73
            if [ ! -x "${JAVACMD-}" ] || [ ! -x "${JAVACCMD-}" ]; then
 74
 75
              echo "The java/javac command does not exist in PATH nor is JAVA_HOME set, so mvnw cannot
 76
              return 1
 77
            fi
 78
          fi
 79
        }
 80
81
         # hash string like Java String::hashCode
82
         hash_string() {
83
           str="${1:-}" h=0
           while [ -n "$str" ]; do
84
              char="${str%"${str#?}"}"
85
              h=$(((h * 31 + $(LC_CTYPE=C printf %d "'$char")) % 4294967296))
86
              str="${str#?}"
87
88
           done
89
           printf %x\\n $h
90
         }
91
92
         verbose() { :; }
         [ "${MVNW_VERBOSE-}" != true ] || verbose() { printf %s\\n "${1-}"; }
93
94
95
         die() {
           printf %s\\n "$1" >&2
96
           exit 1
97
         }
98
100
        trim() {
          # MWRAPPER-139:
101
102
          # Trims trailing and leading whitespace, carriage returns, tabs, and linefeeds.
103
            Needed for removing poorly interpreted newline sequences when running in more
104
          # exotic environments such as mingw bash on Windows.
105
          printf "%s" "${1}" | tr -d '[:space:]'
106
107
108
        # parse distributionUrl and optional distributionSha256Sum, requires .mvn/wrapper/maven-wrapper
109
        while IFS="=" read -r key value; do
110
          case "${key-}" in
          distributionUrl) distributionUrl=$(trim "${value-}") ;;
111
112
          distributionSha256Sum) distributionSha256Sum=$(trim "${value-}") ;;
113
          esac
        done <"${0%/*}/.mvn/wrapper/maven-wrapper.properties"</pre>
114
115
        [ -n "${distributionUrl-}" ] || die "cannot read distributionUrl property in ${0%/*}/.mvn/wrapp
116
117
        case "${distributionUrl##*/}" in
118
        maven-mvnd-*bin.*)
```

```
119
           MVN CMD=mvnd.sh MVNW REPO PATTERN=/maven/mvnd/
120
           case "${PROCESSOR_ARCHITECTURE-}${PROCESSOR_ARCHITEW6432-}:$(uname -a)" in
121
           *AMD64:CYGWIN* | *AMD64:MINGW*) distributionPlatform=windows-amd64 ;;
122
           :Darwin*x86_64) distributionPlatform=darwin-amd64 ;;
123
           :Darwin*arm64) distributionPlatform=darwin-aarch64 ;;
124
           :Linux*x86 64*) distributionPlatform=linux-amd64 ;;
125
126
            echo "Cannot detect native platform for mvnd on $(uname)-$(uname -m), use pure java version" >6
127
            distributionPlatform=linux-amd64
128
            ;;
129
           esac
130
           distributionUrl="${distributionUrl%-bin.*}-$distributionPlatform.zip"
131
132
         maven-mvnd-*) MVN_CMD=mvnd.sh _MVNW_REPO_PATTERN=/maven/mvnd/ ;;
        *) MVN\_CMD="mvn${0##*/mvnw}" _MVNW_REPO_PATTERN=/org/apache/maven/ ;;
133
134
135
136
         # apply MVNW_REPOURL and calculate MAVEN_HOME
137
         # maven home pattern: ~/.m2/wrapper/dists/{apache-maven-<version>,maven-mvnd-<version>-<platform>}/
138
         [ -z "${MVNW REPOURL-}" ] | distributionUrl="$MVNW REPOURL$ MVNW REPO_PATTERN${distributionUrl#*"$
139
        distributionUrlName="${distributionUrl##*/}"
140
        distributionUrlNameMain="${distributionUrlName%.*}"
        distributionUrlNameMain="${distributionUrlNameMain%-bin}"
141
142
        MAVEN_USER_HOME="${MAVEN_USER_HOME:-${HOME}/.m2}"
        MAVEN_HOME="${MAVEN_USER_HOME}/wrapper/dists/${distributionUrlNameMain-}/$(hash_string "$distributi
143
144
145
        exec_maven() {
146
          unset MVNW VERBOSE MVNW USERNAME MVNW PASSWORD MVNW REPOURL | :
147
           exec "$MAVEN HOME/bin/$MVN CMD" "$@" || die "cannot exec $MAVEN HOME/bin/$MVN CMD"
148
149
150
         if [ -d "$MAVEN_HOME" ]; then
          verbose "found existing MAVEN HOME at $MAVEN HOME"
151
152
           exec_maven "$@"
153
        fi
154
155
        case "${distributionUrl-}" in
156
         *?-bin.zip | *?maven-mvnd-?*-?*.zip) ;;
        *) die "distributionUrl is not valid, must match *-bin.zip or maven-mvnd-*.zip, but found '${distri
157
158
159
160
        # prepare tmp dir
161
        if TMP DOWNLOAD DIR="$(mktemp -d)" && [ -d "$TMP DOWNLOAD DIR" ]; then
          clean() { rm -rf -- "$TMP_DOWNLOAD_DIR"; }
162
163
          trap clean HUP INT TERM EXIT
164
        else
165
          die "cannot create temp dir"
        fi
166
167
168
        mkdir -p -- "${MAVEN_HOME%/*}"
169
170
        # Download and Install Apache Maven
171
        verbose "Couldn't find MAVEN HOME, downloading and installing it ..."
        verbose "Downloading from: $distributionUrl"
172
        verbose "Downloading to: $TMP_DOWNLOAD_DIR/$distributionUrlName"
173
174
175
        # select .zip or .tar.gz
176
        if ! command -v unzip >/dev/null; then
```

```
177
          distributionUrl="${distributionUrl%.zip}.tar.gz"
178
          distributionUrlName="${distributionUrl##*/}"
        fi
179
180
181
        # verbose opt
182
        __MVNW_QUIET_WGET=--quiet __MVNW_QUIET_CURL=--silent __MVNW_QUIET_UNZIP=-q __MVNW_QUIET_TAR=''
        [ "${MVNW_VERBOSE-}" != true ] || _MVNW_QUIET_WGET='' __MVNW_QUIET_CURL='' __MVNW_QUIET_UNZIP=''
183
184
185
        # normalize http auth
        case "${MVNW_PASSWORD:+has-password}" in
186
         '') MVNW USERNAME='' MVNW PASSWORD='' ;;
187
        has-password) [ -n "${MVNW_USERNAME-}" ] || MVNW_USERNAME='' MVNW_PASSWORD='' ;;
188
189
        esac
190
        if [ -z "${MVNW_USERNAME-}" ] && command -v wget >/dev/null; then
191
192
          verbose "Found wget ... using wget"
          wget ${__MVNW_QUIET_WGET:+"$__MVNW_QUIET_WGET"} "$distributionUrl" -0 "$TMP_DOWNLOAD_DIR/$distrib
193
        elif [ -z "${MVNW_USERNAME-}" ] && command -v curl >/dev/null; then
194
195
          verbose "Found curl ... using curl"
          curl ${_MVNW_QUIET_CURL:+"$__MVNW_QUIET_CURL"} -f -L -o "$TMP_DOWNLOAD_DIR/$distributionUrlName"
196
197
        elif set_java_home; then
          verbose "Falling back to use Java to download"
198
199
          javaSource="$TMP DOWNLOAD DIR/Downloader.java"
200
          targetZip="$TMP DOWNLOAD DIR/$distributionUrlName"
201
          cat >"$javaSource" <<-END
                public class Downloader extends java.net.Authenticator
203
204
                  protected java.net.PasswordAuthentication getPasswordAuthentication()
205
                    return new java.net.PasswordAuthentication( System.getenv( "MVNW_USERNAME" ), System.get
206
207
                  }
208
                  public static void main( String[] args ) throws Exception
209
                    setDefault( new Downloader() );
210
211
                    java.nio.file.Files.copy( java.net.URI.create( args[0] ).toURL().openStream(), java.nio.
212
                  }
213
215
          # For Cygwin/MinGW, switch paths to Windows format before running javac and java
216
          verbose " - Compiling Downloader.java ..."
217
          "$(native_path "$JAVACCMD")" "$(native_path "$javaSource")" || die "Failed to compile Downloader.j
218
          verbose " - Running Downloader.java ..."
          "$(native path "$JAVACMD")" -cp "$(native path "$TMP DOWNLOAD DIR")" Downloader "$distributionUrl"
220
         fi
221
         # If specified, validate the SHA-256 sum of the Maven distribution zip file
222
223
        if [ -n "${distributionSha256Sum-}" ]; then
224
          distributionSha256Result=false
          if [ "$MVN_CMD" = mvnd.sh ]; then
225
226
            echo "Checksum validation is not supported for maven-mvnd." >&2
227
            echo "Please disable validation by removing 'distributionSha256Sum' from your maven-wrapper.prop
228
229
          elif command -v sha256sum >/dev/null; then
230
            if echo "$distributionSha256Sum $TMP DOWNLOAD DIR/$distributionUrlName" | sha256sum -c >/dev/nu
231
              distributionSha256Result=true
232
            fi
233
          elif command -v shasum >/dev/null; then
234
            if echo "$distributionSha256Sum $TMP_DOWNLOAD_DIR/$distributionUrlName" | shasum -a 256 -c >/de
```

```
2
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0
                   <modelVersion>4.0.0</modelVersion>
  4
                   <parent>
                            <groupId>org.springframework.boot</groupId>
  6
                            <artifactId>spring-boot-starter-parent</artifactId>
 8
                            <version>3.5.3
 9
                            <relativePath/> <!-- lookup parent from repository -->
10
                   </parent>
11
                   <groupId>com.cognizant
                   <artifactId>spring-learn</artifactId>
12
13
                   <version>0.0.1-SNAPSHOT
                   <name>spring-learn</name>
14
                   <description>Demo project for Spring Boot</description>
15
16
                   <ur1/>
                   clicenses>
17
18
                            clicense/>
                   </licenses>
19
20
                   <developers>
21
                            <developer/>
                   //developers>
23
                     <scm>
24
                               <connection/>
25
                               <developerConnection/>
26
                               <tag/>
27
                               <url/>
28
                     </scm>
29
                     cproperties>
30
                               <java.version>21</java.version>
31
                     </properties>
                     <dependencies>
32
33
                               <dependency>
                                          <groupId>org.springframework.boot
34
35
                                           <artifactId>spring-boot-starter-web</artifactId>
36
                               </dependency>
37
38
                               <dependency>
39
                                           <groupId>org.springframework.boot</groupId>
                                          <artifactId>spring-boot-devtools</artifactId>
40
                                          <scope>runtime</scope>
41
42
                                           <optional>true</optional>
                                                                                    Starting SpringLearnApplication using Java 21.8.7 with P.
 12719:52:20.786+05:30 DEBUG 16316 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringlearnApplication
                                                                                     Running with Spring Boot v3.5.3, Spring v6.2.8
 12T19:52:22.976+05:30 INFO 16316
                           - [spring-learn] [ restartedMain] o.apache.catalina.core.StandardService
                                                                                     Starting service [Tomcat]
 12T19:52:22.977+05:30 INFO 16316
                           -- [spring-learn] [ restartedMain] p.apache.catalina.core.StandardEngine
                                                                                     Starting Servlet engine: [Apache Tomcat/10.1.42]
                          -- [spring-learn] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                     Initializing Spring embedded WebApplicationContext
                                                                                     Root WebApplicationContext: initialization completed in
 12T19:52:23.826+05:30 INFO 16316
                                                                                     Started SpringlearnApplication in 3.875 seconds (process
 12719:52:23.832+05:30 DEBUG 16316
                            [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication
                                                                                     Starting displayCountry method..
 12T19:52:24.044+05:30 DEBUG 16316
                            [spring-learn] [ restartedMain] c.cognizant.spring_learn.models.Country
                                                                                     Inside Country Constructor
 12T19:52:24.051+05:30 DEBUG 16316
 12T19:52:24.052+05:38 DEBUG 16316
                                                                                     Country : Country [code=IN, name=India]
 12T19:52:24.052+05:30 DEBUG 16316
                            [spring-learn] [ restartedMain] c.c.spring_learn.SpringlearnApplication [spring-learn] [ restartedMain] c.c.spring_learn.SpringlearnApplication
```

<?xml version="1.0" encoding="UTF-8"?>