

Kraków, 07.03.2018



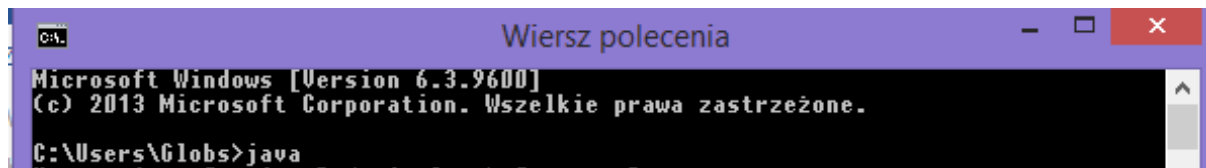
AGH Akademia Górniczo-Hutnicza
im. Stanisława Staszica w Krakowie
Rozproszona Sztuczna Inteligencja
Sprawozdanie numer 1

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1. Sprawdziłam, czy mam zainstalowaną maszynę wirtualną Javy -uruchomiłam poleceniem "java".



W wyniku otrzymałam:



```
Usage: java [options] <mainclass> [args...]
        (to execute a class)
or java [options] -jar <jarfile> [args...]
        (to execute a jar file)
or java [options] -m <module>[/<mainclass>] [args...]
        (to execute a module)
or java [options] --module <module>[/<mainclass>] [args...]
        (to execute the main class in a module)

Arguments following the main class, -jar <jarfile>, -m or --module
<module>/<mainclass> are passed as the arguments to main class.

where options include:
  -d32          Deprecated, will be removed in a future release
  -d64          Deprecated, will be removed in a future release
  -cp <class search path of directories and zip/jar files>
  -classpath <class search path of directories and zip/jar files>
  --class-path <class search path of directories and zip/jar files>
               A ; separated list of directories, JAR archives,
               and ZIP archives to search for class files.
  -p <module path>
  --module-path <module path>...
               A ; separated list of directories, each directory
               is a directory of modules.
  --upgrade-module-path <module path>...
               A ; separated list of directories, each directory
               is a directory of modules that replace upgradeable
               modules in the runtime image
  --add-modules <module name>[,<module name>...]
               root modules to resolve in addition to the initial module.
               <module name> can also be ALL-DEFAULT, ALL-SYSTEM,
               ALL-MODULE-PATH.
  --list-modules
               list observable modules and exit
  -d <module name>
  --describe-module <module name>
               describe a module and exit
  --dry-run      create VM and load main class but do not execute main method.
               The --dry-run option may be useful for validating the
               command-line options such as the module system configuration.
  --validate-modules
               validate all modules and exit
               The --validate-modules option may be useful for finding
               conflicts and other errors with modules on the module path.
  -D<name>=<value>
               set a system property
  -verbose[:<class>|<module>|gc|jni]
               enable verbose output
  -version       print product version to the error stream and exit
  --version      print product version to the output stream and exit
  --show-version print product version to the error stream and continue
  --show-module-resolution
               print product version to the output stream and continue
```

```

    show module resolution output during startup
-? -h -help      print this help message to the error stream
--help          print this help message to the output stream
-X             print help on extra options to the error stream
--help-extra    print help on extra options to the output stream
-ea[:<packagename>...[:<classname>]]
-enableassertions[:<packagename>...[:<classname>]]
    enable assertions with specified granularity
-da[:<packagename>...[:<classname>]]
-disableassertions[:<packagename>...[:<classname>]]
    disable assertions with specified granularity
-esa | -enablesystemassertions
    enable system assertions
-dsa | -disablesystemassertions
    disable system assertions
-agentlib:<libname>[=<options>]
    load native agent library <libname>, e.g. -agentlib:jdwp
    see also -agentlib:jdwp=help
-agentpath:<pathname>[=<options>]
    load native agent library by full pathname
-javaagent:<jarpath>[=<options>]
    load Java programming language agent, see java.lang.instrument

-splash:<imagepath>
    show splash screen with specified image
    HiDPI scaled images are automatically supported and used
    if available. The unscaled image filename, e.g. image.ext,
    should always be passed as the argument to the -splash option.

    The most appropriate scaled image provided will be picked up
    automatically.
    See the SplashScreen API documentation for more information
@argument files
    one or more argument files containing options
-disable-@files
    prevent further argument file expansion
o specify an argument for a long option, you can use --<name>=<value> or
-<name> <value>.

```

2. Sprawdziłam, czy jest zainstalowany na moim komputerze kompilator Javy – polecenie javac.



```

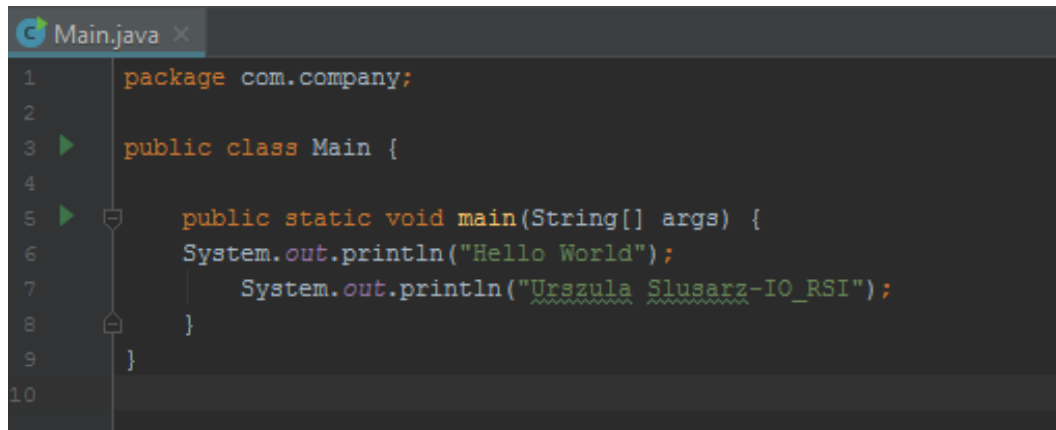
Usage: javac <options> <source files>
where possible options include:
  @<filename>          Read options and filenames from file
  -Akey[=value]        Options to pass to annotation processors
  --add-modules <module>{,<module>}*
                        Root modules to resolve in addition to the initial modules, or all modules
  -es                  on the module path if <module> is ALL-MODULE-PATH.
  --boot-class-path <path>, -bootclasspath <path>
                        Override location of bootstrap class files
  --class-path <path>, -classpath <path>, -cp <path>
                        Specify where to find user class files and annotation processors
  -d <directory>       Specify where to place generated class files
  -deprecation         Output source locations where deprecated APIs are used
  -encoding <encoding> Specify character encoding used by source files
  -endorseddirs <dirs> Override location of endorsed standards path
  -extdirs <dirs>      Override location of installed extensions
  -g                  Generate all debugging info
  -g:{lines,vars,source}
                        Generate only some debugging info
  -g:none             Generate no debugging info
  -h <directory>       Specify where to place generated native header files
  --help, -help        Print this help message
  --help-extra, -X     Print help on extra options
  -implicit:{none,class}
                        Specify whether or not to generate class files for implicitly referenced
                        files
  -J<flag>             Pass <flag> directly to the runtime system
  --limit-modules <module>{,<module>}*
                        Limit the universe of observable modules
  --module <module-name>, -m <module-name>
                        Compile only the specified module, check timestamps
  --module-path <path>, -p <path>
                        Specify where to find application modules
  --module-source-path <module-source-path>
                        Specify where to find input source files for multiple modules
  --module-version <version>
                        Specify version of modules that are being compiled
  -nowarn             Generate no warnings
  -parameters         Generate metadata for reflection on method parameters
  -proc:{none,only}   Control whether annotation processing and/or compilation is done.
  -processor <class1>[,<class2>,<class3>...]
                        Names of the annotation processors to run; bypasses default discovery process
  --processor-module-path <path>
                        Specify a module path where to find annotation processors
  --processor-path <path>, -processorpath <path>
                        Specify where to find annotation processors
  -profile <profile>   Check that API used is available in the specified profile
  --release <release>
                        Compile for a specific VM version. Supported targets: 6, 7, 8, 9
  -s <directory>       Specify where to place generated source files
  -source <release>

```

```
-s <directory>          Specify where to place generated source files
-source <release>       Provide source compatibility with specified release
--source-path <path>, -sourcepath <path> Specify where to find input source files
--system <jdk>|none      Override location of system modules
--target <release>       Generate class files for specific VM version
--upgrade-module-path <path> Override location of upgradeable modules
-verbose                Output messages about what the compiler is doing
--version, -version      Version information
-Werror                 Terminate compilation if warnings occur

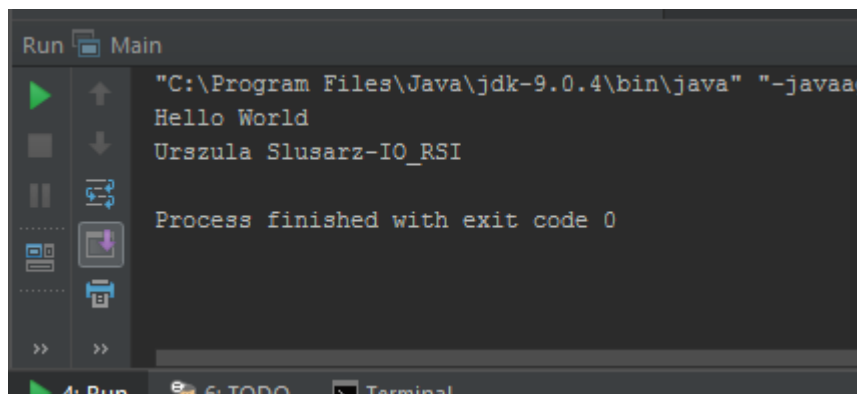
C:\Program Files\Java\jdk-9.0.4\bin>
```

3. Napisałam program "Hello World" wraz z własną modyfikacją.



```
1 package com.company;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello World");
7         System.out.println("Urszula Slusarz-IO_RSI");
8     }
9 }
10
```

Wynik:



```
Run Main
"C:\Program Files\Java\jdk-9.0.4\bin\java" "-javaa
Hello World
Urszula Slusarz-IO_RSI
Process finished with exit code 0
```