

Overview of JShell

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JShell: The Java Shell

- First introduced in Java 9
- Read-Evaluate-Print Loop (REPL) for Java similar to those that exist for other languages
 - evaluates input, prints results, and waits for next input
- Essentially an interpreter for simple Java expressions and programs
- Imports many Java packages by default.
 - `java.io` – `java.math`
 - `java.util` – `...`
- Other packages can be imported – uses `CLASSPATH`.

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JShell (continued)

- Terminating semicolons not required
 - end-of-line terminates an expression
- Use tab key for completions
- Start JShell by typing `jshell` at the command line.
 - `jshell -v` for verbose mode
- Exit by typing `/exit` at the JShell prompt.
 - Commands are distinguished from code snippets by a leading forward slash (/).
 - Other commands include
 - `/help`
 - `/list`
 - `/env`

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JShell Script Files

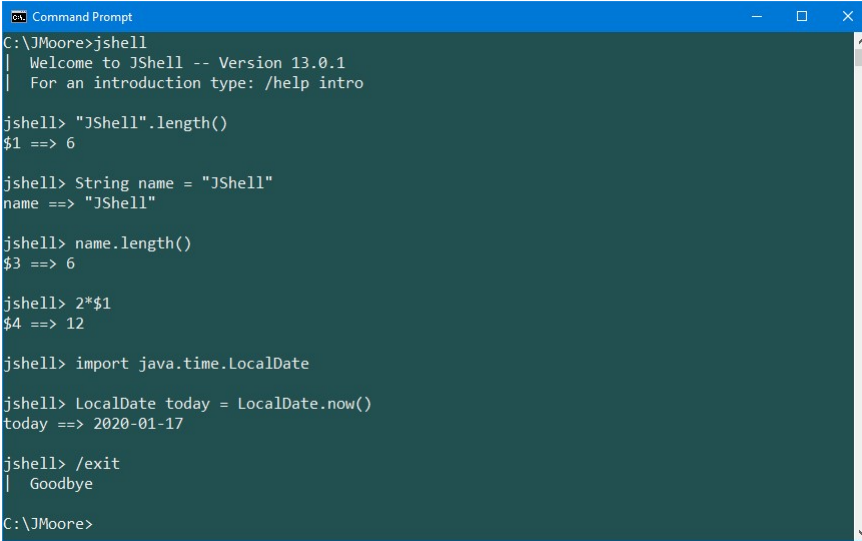
- JShell can be used to run JShell script files
 - sequence of code snippets and JShell commands in a file
 - one snippet or command per line.
 - uses “.jsh” suffix for file name
- Example
 - `C:\JMoore> jshell myCode.jsh`

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Sample Session



```
Command Prompt
C:\JMoore>jshell
| Welcome to JShell -- Version 13.0.1
| For an introduction type: /help intro

jshell> "JShell".length()
$1 ==> 6

jshell> String name = "JShell"
name ==> "JShell"

jshell> name.length()
$3 ==> 6

jshell> 2*$1
$4 ==> 12

jshell> import java.time.LocalDate

jshell> LocalDate today = LocalDate.now()
today ==> 2020-01-17

jshell> /exit
| Goodbye

C:\JMoore>
```

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