JShell

JShell: Intro

- JShell Java Shell interactive tool
- Since Java SE 9
- Read-Evaluate-Print-Loop (REPL)
- Eases learning Java for students/developers/architect
- Exploring Java APIs
- Trail and Error

JShell: Why use

- Java program development involves following
 - Write complex program
 - Compile and fix any errors
 - Run the program
 - Figure out what is wrong with it
 - Edit the program
 - Repeat the steps
- Helps to perform all above in ENTER

JShell: What can/can't

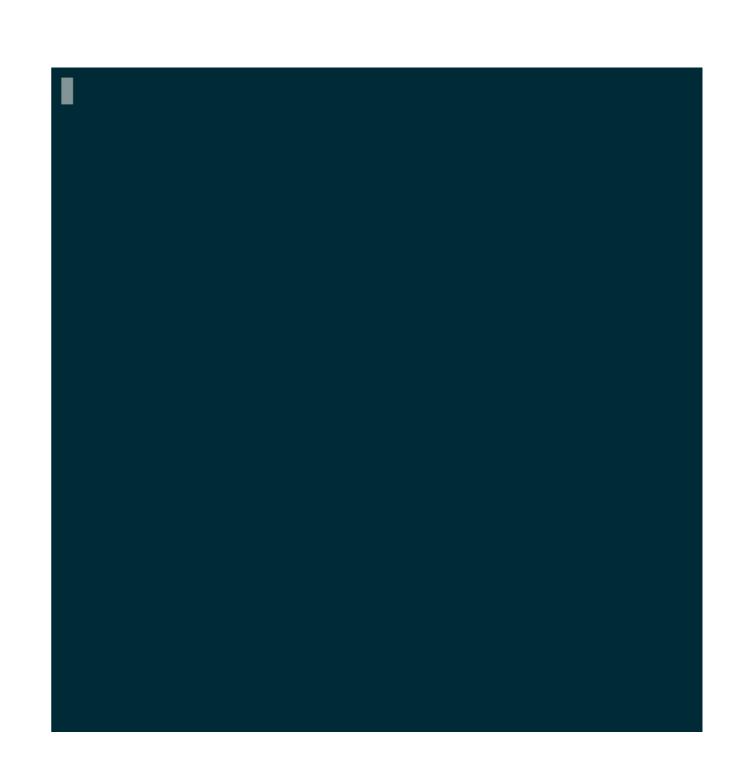
- Can
 - evaluates declaration, statements, expression
 - try out different variant of methods
 - experiment with unfamiliar APIs
- Can't use as
 - top level / package statements
 - static block
 - IDE

JShell: Get started



JShell: Trying out

- declaration
- statement
- expression



JShell: Trying out...

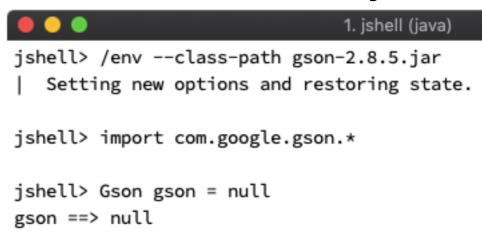
- Create class
- Declare method
- Create object

JShell: Helper features

Auto completion

1. jshell (java) jshell> new String("Hello").to toUpperCase(toCharArray() toLowerCase(toString() jshell> new String("Hello").toUpperCase() \$1 ==> "HELLO"

External library



Java API documentation

```
1. jshell (java)
jshell> Math.PI
Signatures:
Math.PI:double
s tab again to see documentation>
jshell> Math.PI
Math.PI:double
The double value that is closer than any other to pi , the ratio of the gh level method details of javadocs
circumference of a circle to its diameter.
jshell> Math.PI
$3 ==> 3.141592653589793
```

ist by pressing <Tab> key enables ito completion and Java docs atures.

Iello".to<Tab> - Auto completion

lello".toUpperCase(<Tab>

fello".toUpperCase(<Tab><Tab> etailed method details of javadocs

JShell: Helper commands

Session commands

/set

/reset

/reload

/env

/exit

Helper commands

/help

/?

/history

/!

/id

Editor commands

/edit

/open

/save

Snippet commands

/list

/types

/methods

/imports

/vars

Demo

Q&A

Reference:

https://docs.oracle.com/javase/10/jshell/toc.htm

https://docs.oracle.com/javase/9/jshell/JSHEL.pdf

https://docs.oracle.com/javase/9/tools/jshell.htm