# Java 9 REPL (JShell)

REPL(Read Eval Print Loop)意为交互式的编程环境。

JShell 是 Java 9 新增的一个交互式的编程环境工具。它允许你无需使用类或者方法包装来执行 Java 语句。它与 Python 的解释器类似，可以直接 输入表达式并查看其执行结果。

**执行 JSHELL**

$ jshell| Welcome to JShell -- Version 9-ea| For an introduction type: /help intro

jshell>

**查看 JShell 命令**

输入 **/help** 可以查看 JShell相关的命令：

jshell> /help| Type a Java language expression, statement, or declaration.| Or type one of the following commands:| /list [<name or id>|-all|-start]| list the source you have typed| /edit <name or id>| edit a source entry referenced by name or id| /drop <name or id>| delete a source entry referenced by name or id| /save [-all|-history|-start] <file>| Save snippet source to a file.| /open <file>| open a file as source input| /vars [<name or id>|-all|-start]| list the declared variables and their values| /methods [<name or id>|-all|-start]| list the declared methods and their signatures| /types [<name or id>|-all|-start]| list the declared types| /imports | list the imported items

**执行 JShell 命令**

**/imports** 命令用于查看已导入的包：

jshell> /imports| import java.io.\*| import java.math.\*| import java.net.\*| import java.nio.file.\*| import java.util.\*| import java.util.concurrent.\*| import java.util.function.\*| import java.util.prefs.\*| import java.util.regex.\*| import java.util.stream.\*

jshell>

**JShell 执行计算**

以下实例执行 JShell 简单计算：

jshell> 3+1

$1 ==> 4

jshell> 13%7

$2 ==> 6

jshell> $2

$2 ==> 6

jshell>

**JShell 创建与使用函数**

创建一个函数 doubled() ，将传入的整型参数乘于 2 后返回：

jshell> int doubled(int i){ return i\*2;}| created method doubled(int)

jshell> doubled(6)

$3 ==> 12

jshell>

**退出 JShell**

输入 /exit 命令退出 jshell：

jshell> /exit| Goodbye