Scala

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- Modern multi-paradigm programming language.

- Short for Scalable Language.

- Created by Martin Odersky

- Released the first version in 2003.

- Scala runs on a Java virtual machine and is compatible with existing Java programs.

- Scala source code is compiled into Java bytecode, so it can run on top of the JVM and can call existing Java class libraries.

The first Scala program: Hello World

- HelloWorld.scala
  - object HelloWorld {
  - def main(args: Array[String]): Unit = {
  - println("Hello, world!")
  - }
  - }
- // Compile source code into bytecode
  - $ scalac HelloWorld.scala
- // Put the bytecode into the virtual machine to explain Run
  - $ scala HelloWorld
- The output is:
  - Hello, world!

Access Console

- Open
  - http://pythonvm.westus.cloudapp.azure.com:4200

Scala - Installation Setup

- Must have Java 1.8 or greater installed on your computer.
- Step 1: Verify Java Installation
  - java –version
- Step 2: Install Scala
  - Windows
    - https://downloads.lightbend.com/scala/2.13.1/scala-2.13.1.msi
  - Ubuntu:
    - curl -s "https://get.sdkman.io" | bash
    - source "~/.sdkman/bin/sdkman-init.sh"
    - sdk install scala
    - scala –version

Scala documentation and help

- https://docs.scala-lang.org/
- Scala Book
  - An online book introducing the main language features.
  - https://docs.scala-lang.org/overviews/scala-book/introduction.html

Thanks