**Scala Installation and Setup:**

**MAC :**

1. **Using Homebrew**

**Step 1 :** **Get Homebrew**

Homebrew makes your life a lot easier when it comes to installing applications and languages on a Mac OS.

open your terminal and type:

/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

**Step 2** : **Use Homebrew to install Java**

Scala is dependent on Java, you may or may not need to install it. The easiest way to install it is to just use HomeBrew:

Installing Java8

brew cask install java8

**Step 3** : **Use Homebrew to install Scala**

Now with Homebrew installed go to your terminal and type:

brew install scala

**Step 4:** Add scala/bin folder to your PATH

export PATH=/usr/local/scala/bin:$PATH

If everything was setup correctly you should see this on your screen

1. **Manual**

**Step 1 :** Download scala-X.XX.tgz from the official [site](http://www.scala-lang.org/download/).

**Step 2:** Unzip archive and move it to /usr/local folder

sudo cp -R scala-X.XX /usr/local/scala

**Step 3:** Open your .bash\_profile file

**Step 4:** Add scala/bin folder to your PATH

export PATH=/usr/local/scala/bin:$PATH

typing scala in console.

If everything was setup correctly you should see this on your screen

**Unix:**

**Step 1:**

Verify the JDK installation on your machine. Open the shell/terminal and type **java -version** and **javac –version**

**Step 2:**

Download Scala Binaries from http://www.scala-lang.org/download/ and then unzip the scala-2.xx.x.tgz file using the following command

**Step 3:**

$ tar -xvzf scala-2.xx.x.tgz

export PATH = $PATH:/path/to/scala/bin

**Windows:**

**Step 1**:

Verify the JDK installation on your machine. Open the shell/terminal and type **java -version** and **javac -version**

**Step 2:**

Download Scala 2.xx.x binaries in the system from  http://www.scala-lang.org/download/ and then run the downloaded file

**Step 3:**

Click on next button and follow instructions and complete the setup

**Step 4:**

Set path

Right click on My Computer ->Properties ->Advanced System setting ->Environment Variable ->Select Path->Edit

Add path to scala till the bin at the end of the path

by ‘C:\Windows\System32; C:\Program Files\scala\bin’.

Then type scala in command line mode

**Install Jupyter Notebook:**

Follow the instructions as suggested in the below link

<https://jupyter.org/install>

<https://jupyter.readthedocs.io/en/latest/install.html>

**Install Scala Kernal for Jupyter Notebook:**

**Step 1: Create a launcher**

Adjust ALMOND\_VERSION and SCALA\_VERSION at your convenience to meet your needs. Not all combinations are guaranteed to be available.

[Click Here](https://almond.sh/docs/install-versions) for version compatibility.

**MAC & Unix:**

Set the desired version of Scala and Almond as environment variables:

$ SCALA\_VERSION=2.12.8 ALMOND\_VERSION=0.4.0

**Windows:**

> set SCALA\_VERSION=2.12.8

> set ALMOND\_VERSION=0.4.0

**Step 2: Create a launcher via coursier**

**MAC & Unix:**

curl -Lo coursier <https://git.io/coursier-cli>

chmod +x coursier

./coursier bootstrap \

-r jitpack \

-i user -I user:sh.almond:scala-kernel-api\_$SCALA\_VERSION:$ALMOND\_VERSION \

sh.almond:scala-kernel\_$SCALA\_VERSION:$ALMOND\_VERSION \

-o almond

**Windows:**

> bitsadmin /transfer downloadCoursierCli https://git.io/coursier-cli "%cd%\coursier"

> bitsadmin /transfer downloadCoursierBat https://git.io/coursier-bat "%cd%\coursier.bat"

> .\coursier bootstrap ^

-r jitpack ^

-i user -I user:sh.almond:scala-kernel-api\_%SCALA\_VERSION%:%ALMOND\_VERSION% ^

sh.almond:scala-kernel\_%SCALA\_VERSION%:%ALMOND\_VERSION% ^ -o almond > .\almond –install

**Step 3: Install the almond kernel**

Run the launcher to install the almond kernel

**MAC &Unix:**

$ ./almond –install

**Windows:**

$ .\almond --install

**Step 4: Testing the notebook**

Open the Jupyter Notebook and set the kernal as scala

write the below code and check

val x = 2  
 val y = 3

x+y