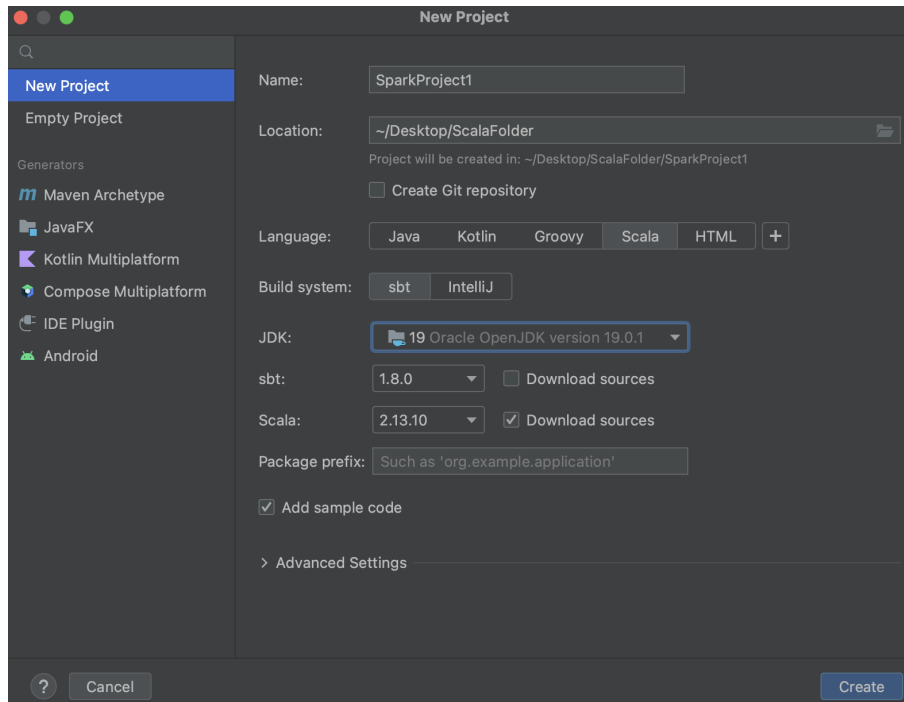


SBT VERSION

Project Configuration for Spark Scala

Step 1 - Create a new project



Step 2 - Configure a sbt file

```
ThisBuild / version := "0.1.0-SNAPSHOT"

ThisBuild / scalaVersion := "2.13.2"

lazy val root = (project in file("."))
  .settings(
    name := "SparkProject1"
  )

val sparkVersion = "3.3.1"
// Note the dependencies are provided
libraryDependencies += "org.apache.spark" %% "spark-core" % sparkVersion
libraryDependencies += "org.apache.spark" %% "spark-sql" % sparkVersion
```

Step 3 - Create a scala object to test the first Spark App

```
import org.apache.spark.sql.SparkSession

object Main {
  def main(args: Array[String]): Unit = {
    println("Hello world!")

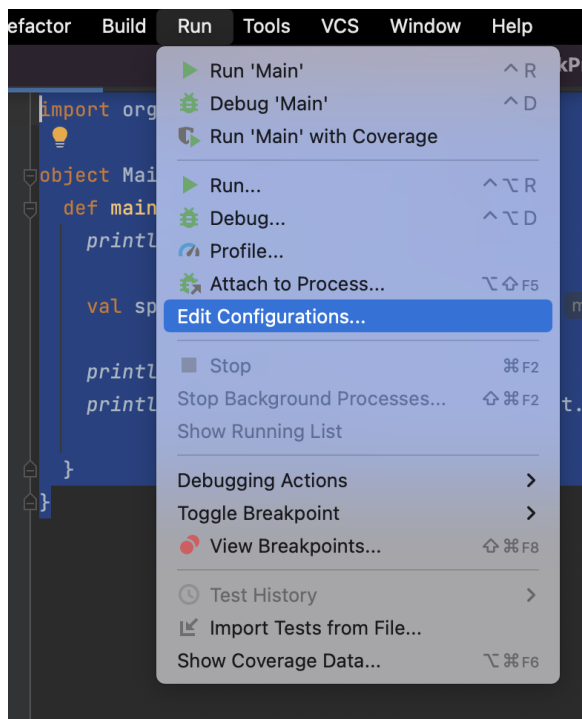
    val spark =
SparkSession.builder.master("local").appName("SparkByExample").getOrCreate(
)

    println("First SparkContext:")
    println("APP Name : " + spark.sparkContext.appName)

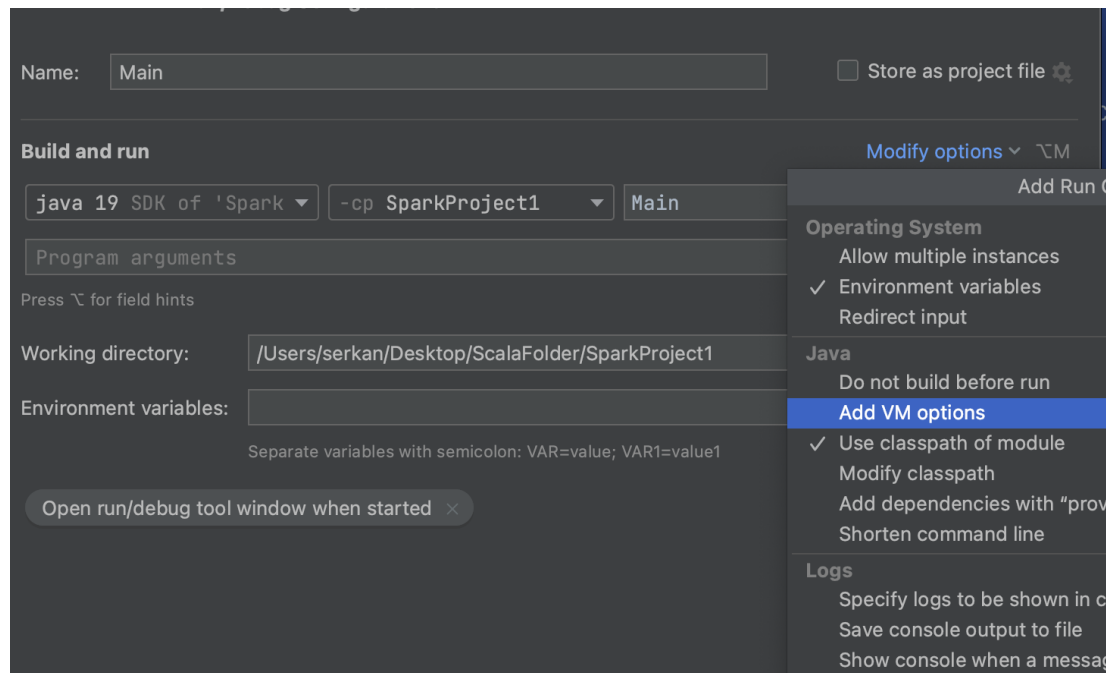
  }
}
```

Step 4 - Change the run configuration

Click to the Edit Configuration

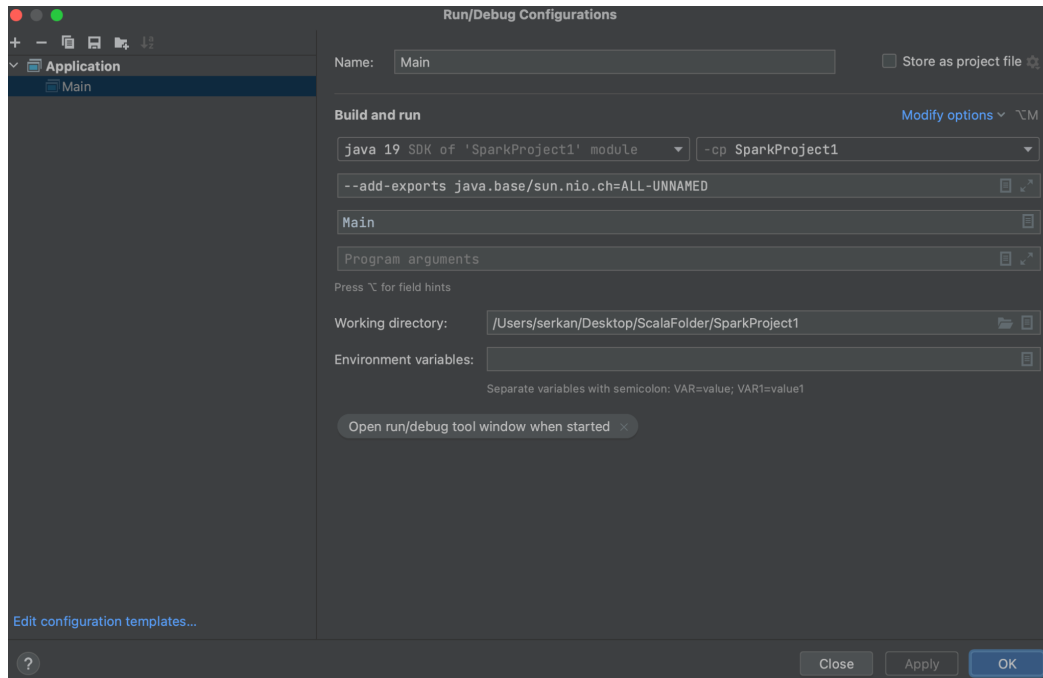


Select the Add VM Option



Add the following line

```
--add-exports java.base/sun.nio.ch=ALL-UNNAMED
```



Run the sample code

```
First SparkContext:  
APP Name :SparkByExample
```

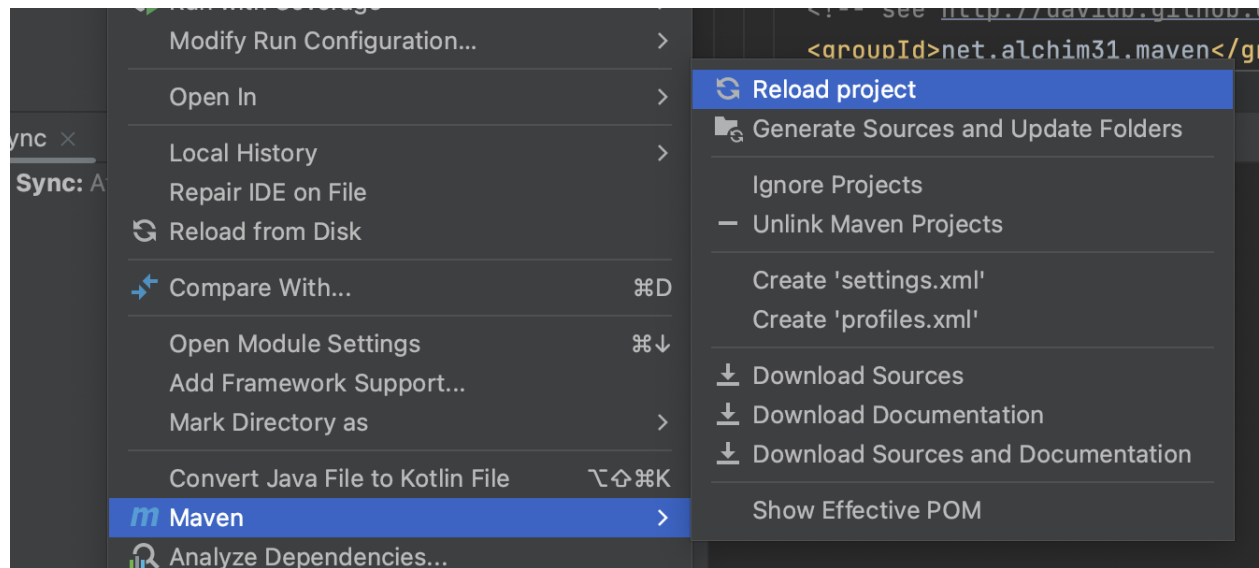
MAVEN VERSION

Step 1 - Add respective spark core version

```
<dependency>  
  <groupId>org.apache.spark</groupId>  
  <artifactId>spark-core_2.12</artifactId>  
  <version>3.0.0</version>  
</dependency>
```

```
<dependency>  
  <groupId>org.apache.spark</groupId>  
  <artifactId>spark-sql_2.12</artifactId>  
  <version>3.0.0</version>  
</dependency>
```

Step 2 - Reload the project via Maven



Step 3 - Sample code

```
package org.example

import org.apache.spark.sql.SparkSession

object SparkHello {

  def main(args: Array[String]): Unit = {

    val logFile = "test" // Should be some file on your system
    val spark = SparkSession.builder.master("local").appName("Simple
Application").getOrCreate()
    val logData = spark.read.textFile(logFile).cache()
    val numAs = logData.filter(line => line.contains("a")).count()
    val numBs = logData.filter(line => line.contains("b")).count()
    println(s"Lines with a: $numAs, Lines with b: $numBs")
    spark.stop()

  }

}
```