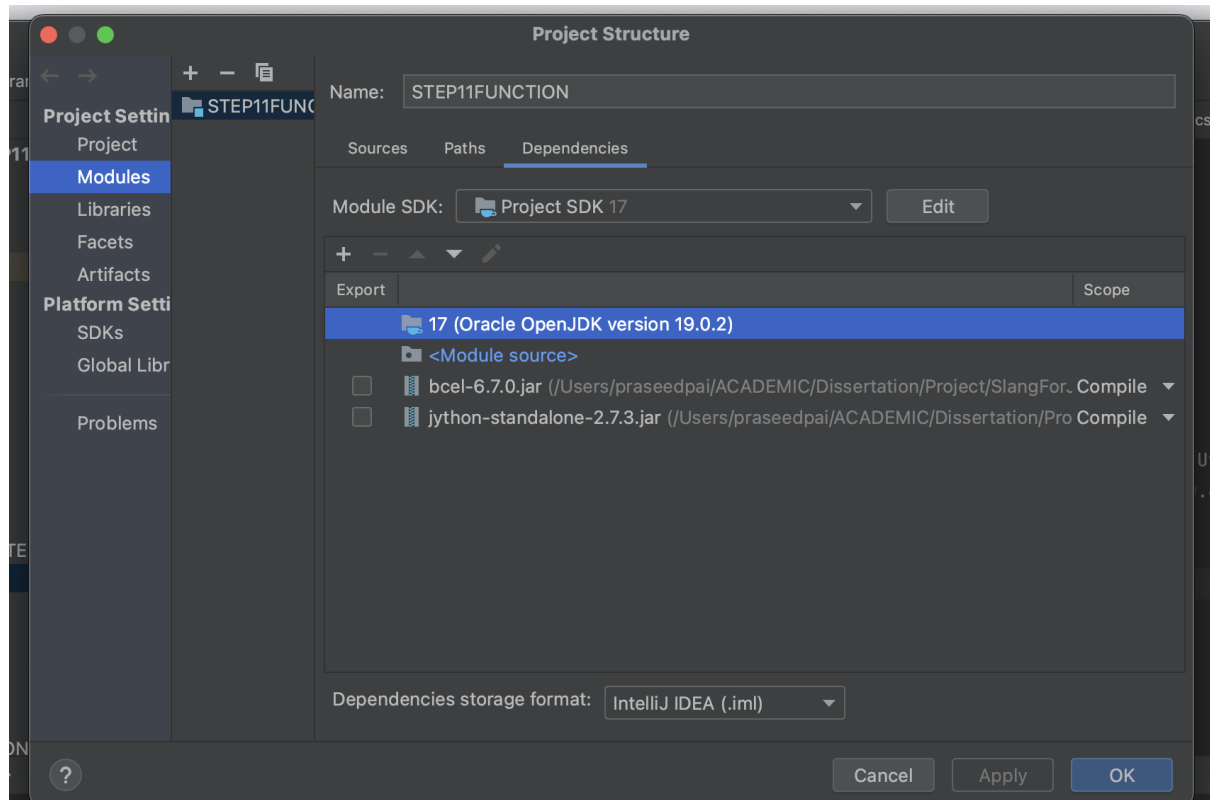


## Prerequisite

1. IntelliJIdea
2. Java 17 or above from Oracle
3. Jython library: jython-standalone-2.7.3.jar
4. BCEL Library: bcel-6.7.0.jar
5. GCC compiler 9.x or above



Copy the zip file "Dissertation.zip"

Install IntelliJIdea Community Edition

Open the folder "Dissertation" using IntelliJIdea

Copy the folder "Resources"

Update the commandline environment

Project Configuration: Run menu -> Edit Configurations -> Program-> Build and run

Edit the project configuration:

/Users/praseedpai/ACADEMIC/Dissertation/Project/Resources/DecisionTree.py

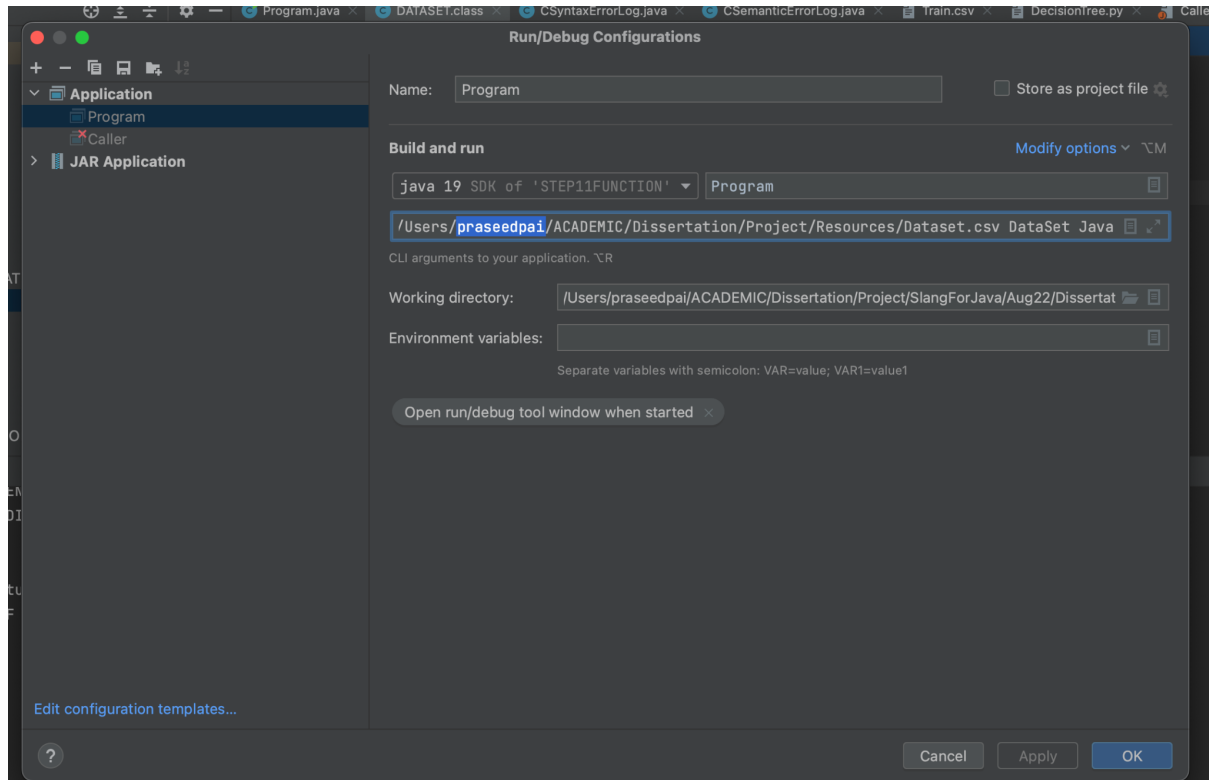
/Users/praseedpai/ACADEMIC/Dissertation/Project/Resources/Dataset.csv DataSet Java

My machine "Resource" folder is in /Users/praseedpai/ACADEMIC/Dissertation/Project/  
replace with corresponding folder.

Project configuration expects four parameters

1. Fully qualified path of the DecisionTree.py

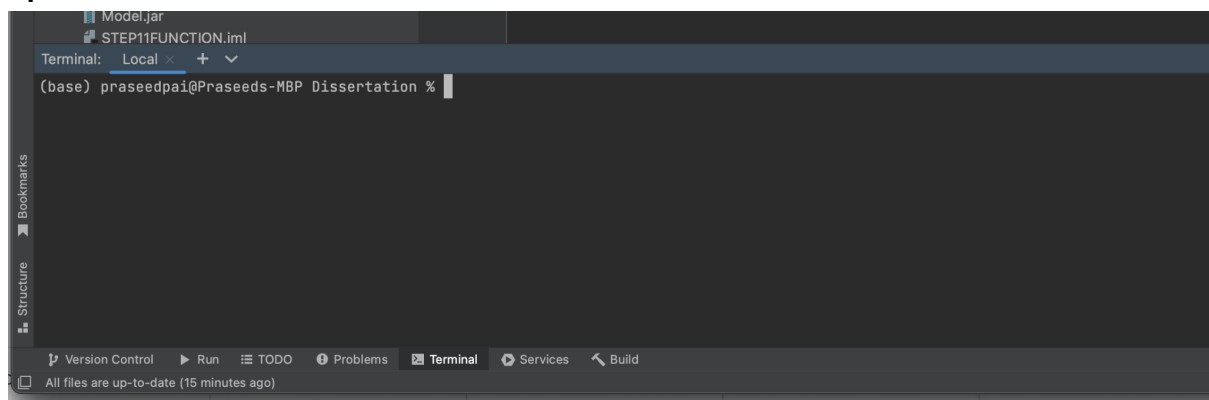
2. Fully qualified path of the Dataset.csv
3. Name of the file (C or Java) to be generated. In this case "DataSet"
4. Type of the file (C or Java)



## Run the application

This will generate DATASET.class or DATASET.cpp

## Open Terminal within the IntelliJIdea

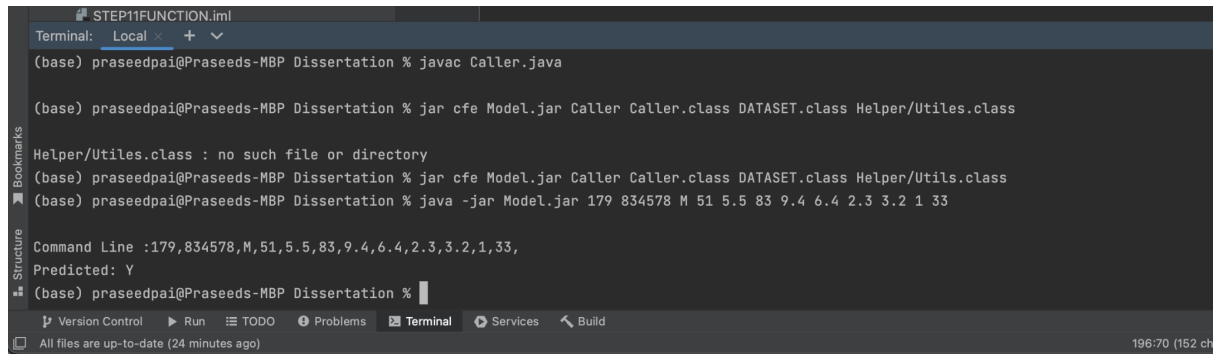


For generating Jar file and Testing

```
javac Caller.java
```

```
jar cfe Model.jar Caller Caller.class DATASET.class Helper/Utils.class
```

```
java -jar Model.jar 179 834578 M 51 5.5 83 9.4 6.4 2.3 3.2 1 33
```



```
STEP11FUNCTION.iml
Terminal: Local x + v
(base) praseedpai@Praseeds-MBP Dissertation % javac Caller.java

(base) praseedpai@Praseeds-MBP Dissertation % jar cfe Model.jar Caller Caller.class DATASET.class Helper/Utils.class

Helper/Utils.class : no such file or directory
(base) praseedpai@Praseeds-MBP Dissertation % jar cfe Model.jar Caller Caller.class DATASET.class Helper/Utils.class
(base) praseedpai@Praseeds-MBP Dissertation % java -jar Model.jar 179 834578 M 51 5.5 83 9.4 6.4 2.3 3.2 1 33

Command Line :179,834578,M,51,5.5,83,9.4,6.4,2.3,3.2,1,33,
Predicted: Y
(base) praseedpai@Praseeds-MBP Dissertation %
```

Version Control Run TODO Problems Terminal Services Build

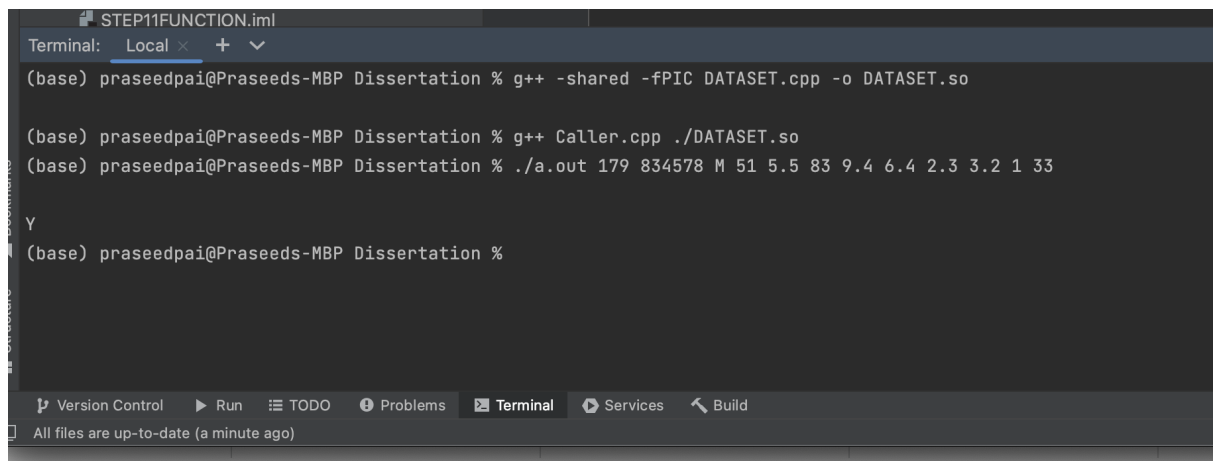
All files are up-to-date (24 minutes ago) 196:70 (152 ch)

For generating C++ file and Testing

g++ -shared -fPIC DATASET.cpp -o DATASET.so

g++ Caller.cpp ./DATASET.so

./a.out 179 834578 M 51 5.5 83 9.4 6.4 2.3 3.2 1 33



```
STEP11FUNCTION.iml
Terminal: Local x + v
(base) praseedpai@Praseeds-MBP Dissertation % g++ -shared -fPIC DATASET.cpp -o DATASET.so

(base) praseedpai@Praseeds-MBP Dissertation % g++ Caller.cpp ./DATASET.so
(base) praseedpai@Praseeds-MBP Dissertation % ./a.out 179 834578 M 51 5.5 83 9.4 6.4 2.3 3.2 1 33

Y
(base) praseedpai@Praseeds-MBP Dissertation %
```

Version Control Run TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)