README:

1) Steps to execute Java Code:

i) In Eclipse, Export the folder CKYParser.

ii) Folder structure :

data - This contains grammar files.

test.pcfg - the test gramamr

treebankGrammar.pcfg - The grammar generated from NLTK corpus

script - This contains the python script which is used to generate treebankGrammar.pcfg

iii) Right click in class src/com/ckyparser/mainMain.java. Run as -> Run Configurations -> Under arguments tab, provide these program arguments

"<grammar file>" "Sentence to be parsed"

Sample grammar files is kept in the data folder under the CKYParser folder.

eg : ""E:/practice/java/CKYParser/data/test.pcfg" "The flight includes a meal"

Then click on Apply-> Then Run

iv) The console output :

Parse tree for Sentence : The flight includes a meal

[S [NP [DT The] [NN flight]] [VP [V includes] [NP [DT a][NN meal]]]]

Sentence probability is 2.3040000000000003E-8

The total execution time 98

It can be run from the command line too. Steps are mentioned in the below screenshot:

