

# Instructions on compiling and running the java source files on a Linux (Ubuntu 15.10) machine from Terminal

## Assumptions:

- Openjdk-7-jdk package installed

```
>>sudo apt-get update
>>sudo apt-get install openjdk-7-jdk
```

## Step 1:

Copy and paste the “**ConsoleSpreadSheetEvaluator**” folder (contains all source files) into working directory of the local machine.

## Step 2: “cd” into directory

```
>> cd ConsoleSpreadSheetEvaluator
```

## Step 3: Check folder

Please make sure the following source files are present in the folder

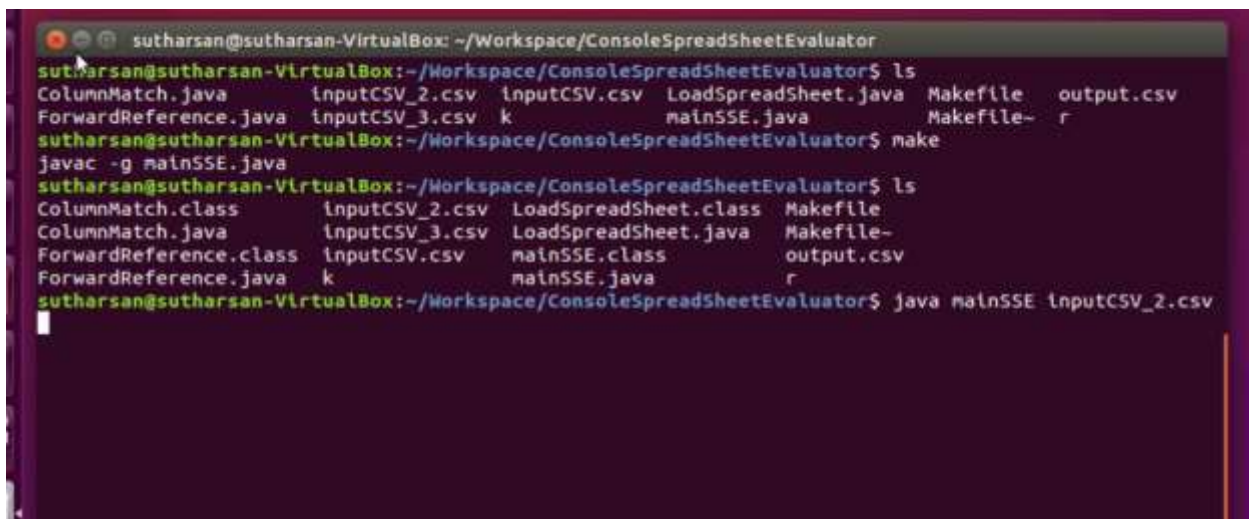
- 1) *mainSSE.java*
- 2) *LoadSpreadSheet.java*
- 3) *ColumnMatch.java*
- 4) *ForwardReference.java*

## Please Note:

- The output is stored in the **output.csv** file

## Step 4: execute MakeFile from working directory

```
>> make
```



```
sutharsan@sutharsan-VirtualBox: ~/Workspace/ConsoleSpreadSheetEvaluator
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ ls
ColumnMatch.java      inputCSV_2.csv  inputCSV.csv  LoadSpreadSheet.java  Makefile  output.csv
ForwardReference.java  inputCSV_3.csv  k             mainSSE.java           Makefile~  r
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ make
javac -g mainSSE.java
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ ls
ColumnMatch.class      inputCSV_2.csv  LoadSpreadSheet.class  Makefile
ColumnMatch.java       inputCSV_3.csv  LoadSpreadSheet.java   Makefile~
ForwardReference.class  inputCSV.csv    mainSSE.class           output.csv
ForwardReference.java   k              mainSSE.java            r
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ java mainSSE inputCSV_2.csv
```

## Step 5: Run Spread Sheet program with chosen input .csv file.

```
>> java mainSSE <chosen datafile.csv file>
```

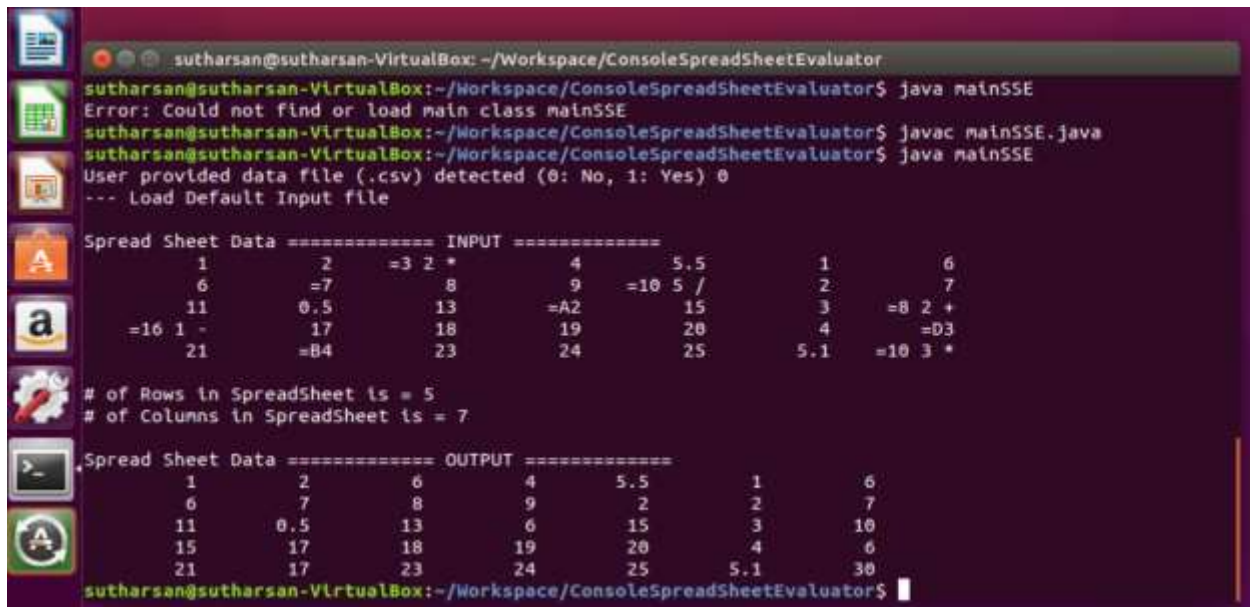
Example:

```
>> java mainSSE inputCSV_3.csv
```

**\*Please note:** If the user does not provide a .csv file, the program will use the default .csv file (*inputCSV.csv*) included in its source code folder

## Sample Output:

Sample 1: Output using “default” input.csv file



```
sutharsan@sutharsan-VirtualBox: ~/Workspace/ConsoleSpreadSheetEvaluator
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ java mainSSE
Error: Could not find or load main class mainSSE
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ javac mainSSE.java
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ java mainSSE
User provided data file (.csv) detected (0: No, 1: Yes) 0
--- Load Default Input file

Spread Sheet Data ===== INPUT =====
   1      2      =3 2 *      4      5.5      1      6
   6      =7      8      9      =10 5 /      2      7
  11      0.5      13      =A2      15      3      =8 2 +
 =16 1 -      17      18      19      20      4      =D3
  21      =B4      23      24      25      5.1      =10 3 *

# of Rows in Spreadsheet is = 5
# of Columns in Spreadsheet is = 7

Spread Sheet Data ===== OUTPUT =====
   1      2      6      4      5.5      1      6
   6      7      8      9      2      2      7
  11      0.5      13      6      15      3      10
  15      17      18      19      20      4      6
  21      17      23      24      25      5.1      30

sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$
```

### Sample 2: Output using “user” supplied .csv file (ex. inputCSV\_2.csv)

```
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ java mainSSE inputCSV_2.csv
User provided data file (.csv) detected (0: No, 1: Yes) 1
--- Load Non-Default (user provided) Input file: inputCSV_2.csv

Spread Sheet Data ===== INPUT =====
      1      2      3      4      5      6
      6      7      8      9     10     7
     11     12     13     14     15     8
     16     17     18     19     20     9
     21     22     23     24     25    10

# of Rows in SpreadSheet is = 5
# of Columns in SpreadSheet is = 7

Spread Sheet Data ===== OUTPUT =====
      1      2      3      4      5      6
      6      7      8      9     10     7
     11     12     13     14     15     8
     16     17     18     19     20     9
     21     22     23     24     25    10

sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$
```

### Sample 3: Output using “user” supplied .csv file with forward cell references

```
sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$ java mainSSE inputCSV_3.csv
User provided data file (.csv) detected (0: No, 1: Yes) 1
--- Load Non-Default (user provided) Input file: inputCSV_3.csv

Spread Sheet Data ===== INPUT =====
      1      2      3      4      5      6
      6      7      8      9     10     7
     11     0.5    13     =F4    15     3
     16     1 -    17     18     19     20
     21     =E5    23     24     3.3    5.1

# of Rows in SpreadSheet is = 5
# of Columns in SpreadSheet is = 7

NOTE: Spread Sheet contained forward cell references!
Spread Sheet Data ===== OUTPUT =====
      1      2      6      4      5.5      1      6
      6      7      8      9      2      2      7
     11     0.5    13     77     15      3     10
     15     17     18     19     20     77      6
     21     3.3    23     24     3.3    5.1     30

sutharsan@sutharsan-VirtualBox:~/Workspace/ConsoleSpreadSheetEvaluator$
```