Output_in_console

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After run the code `run_analysis.R` in your Rstudio is going to have the *humanActivity* data in your Environment window, and this data is written in your external file called "*tidy_data.txt*".

- The file "*tidy_data.txt*" it is a table that contem a data.frame.
- The file has 10299 observation and 81 variables. Below has the full list of variables:

```
> x <- humanActivity[0,]
> x
 [1] subject
 [2] timeDomainBodyAccelerometerMeanX
 [3] timeDomainBodyAccelerometerMeanY
 [4] timeDomainBodyAccelerometerMeanZ
 [5] timeDomainBodyAccelerometerStandardDeviationX
 [6] timeDomainBodyAccelerometerStandardDeviationY
 [7] timeDomainBodyAccelerometerStandardDeviationZ
 [8] timeDomainGravityAccelerometerMeanX
 [9] timeDomainGravityAccelerometerMeanY
[10] timeDomainGravityAccelerometerMeanZ
[11] timeDomainGravityAccelerometerStandardDeviationX
[12] timeDomainGravityAccelerometerStandardDeviationY
[13] timeDomainGravityAccelerometerStandardDeviationZ
[14] timeDomainBodyAccelerometerJerkMeanX
[15] timeDomainBodyAccelerometerJerkMeanY
[16] timeDomainBodyAccelerometerJerkMeanZ
[17] timeDomainBodyAccelerometerJerkStandardDeviationX
[18] timeDomainBodyAccelerometerJerkStandardDeviationY
[19] timeDomainBodyAccelerometerJerkStandardDeviationZ
[20] timeDomainBodyGyroscopeMeanX
[21] timeDomainBodyGyroscopeMeanY
[22] timeDomainBodyGyroscopeMeanZ
[23] timeDomainBodyGyroscopeStandardDeviationX
[24] timeDomainBodyGyroscopeStandardDeviationY
[25] timeDomainBodyGyroscopeStandardDeviationZ
[26] timeDomainBodyGyroscopeJerkMeanX
[27] timeDomainBodyGyroscopeJerkMeanY
[28] timeDomainBodyGyroscopeJerkMeanZ
[29] timeDomainBodyGyroscopeJerkStandardDeviationX
[30] timeDomainBodyGyroscopeJerkStandardDeviationY
[31] timeDomainBodyGyroscopeJerkStandardDeviationZ
[32] timeDomainBodyAccelerometerMagnitudeMean
```

```
[33] timeDomainBodyAccelerometerMagnitudeStandardDeviation
[34] timeDomainGravityAccelerometerMagnitudeMean
[35] timeDomainGravityAccelerometerMagnitudeStandardDeviation
[36] timeDomainBodyAccelerometerJerkMagnitudeMean
[37] timeDomainBodyAccelerometerJerkMagnitudeStandardDeviation
[38] timeDomainBodyGyroscopeMagnitudeMean
[39] timeDomainBodyGyroscopeMagnitudeStandardDeviation
[40] timeDomainBodyGyroscopeJerkMagnitudeMean
[41] timeDomainBodyGyroscopeJerkMagnitudeStandardDeviation
[42] frequencyDomainBodyAccelerometerMeanX
[43] frequencyDomainBodyAccelerometerMeanY
[44] frequencyDomainBodyAccelerometerMeanZ
[45] frequencyDomainBodyAccelerometerStandardDeviationX
[46] frequencyDomainBodyAccelerometerStandardDeviationY
[47] frequencyDomainBodyAccelerometerStandardDeviationZ
[48] frequencyDomainBodyAccelerometerMeanFrequencyX
[49] frequencyDomainBodyAccelerometerMeanFrequencyY
[50] frequencyDomainBodyAccelerometerMeanFrequencyZ
[51] frequencyDomainBodyAccelerometerJerkMeanX
[52] frequencyDomainBodyAccelerometerJerkMeanY
[53] frequencyDomainBodyAccelerometerJerkMeanZ
[54] frequencyDomainBodyAccelerometerJerkStandardDeviationX
[55] frequencyDomainBodyAccelerometerJerkStandardDeviationY
[56] frequencyDomainBodyAccelerometerJerkStandardDeviationZ
[57] frequencyDomainBodyAccelerometerJerkMeanFrequencyX
[58] frequencyDomainBodyAccelerometerJerkMeanFrequencyY
[59] frequencyDomainBodyAccelerometerJerkMeanFrequencyZ
[60] frequencyDomainBodyGyroscopeMeanX
[61] frequencyDomainBodyGyroscopeMeanY
[62] frequencyDomainBodyGyroscopeMeanZ
[63] frequencyDomainBodyGyroscopeStandardDeviationX
[64] frequencyDomainBodyGyroscopeStandardDeviationY
[65] frequencyDomainBodyGyroscopeStandardDeviationZ
[66] frequencyDomainBodyGyroscopeMeanFrequencyX
[67] frequencyDomainBodyGyroscopeMeanFrequencyY
[68] frequencyDomainBodyGyroscopeMeanFrequencyZ
[69] frequencyDomainBodyAccelerometerMagnitudeMean
[70] frequencyDomainBodyAccelerometerMagnitudeStandardDeviation
[71] frequencyDomainBodyAccelerometerMagnitudeMeanFrequency
[72] frequencyDomainBodyAccelerometerJerkMagnitudeMean
[73] frequencyDomainBodyAccelerometerJerkMagnitudeStandardDeviation
[74] frequencyDomainBodyAccelerometerJerkMagnitudeMeanFrequency
[75] frequencyDomainBodyGyroscopeMagnitudeMean
[76] frequencyDomainBodyGyroscopeMagnitudeStandardDeviation
[77] frequencyDomainBodyGyroscopeMagnitudeMeanFrequency
[78] frequencyDomainBodyGyroscopeJerkMagnitudeMean
[79] frequencyDomainBodyGyroscopeJerkMagnitudeStandardDeviation
[80] frequencyDomainBodyGyroscopeJerkMagnitudeMeanFrequency
[81] activity
```

The *humanActivity[,2:80])* are all numeric class with seft-explanatory values.

```
> str(humanActivity$subject)
 int [1:10299] 1 1 1 1 1 1 1 1 1 1 .
```

```
> str(humanActivity$activity)
 Factor w/ 6 levels "WALKING","WALKING_UPSTAIRS",..: 5 5 5 5 5 5 5 5 5 5 ...
> levels(humanActivity$activity)
[1] "WALKING"            "WALKING_UPSTAIRS"   "WALKING_DOWNSTAIRS" "SITTING"
[5] "STANDING"           "LAYING"
```