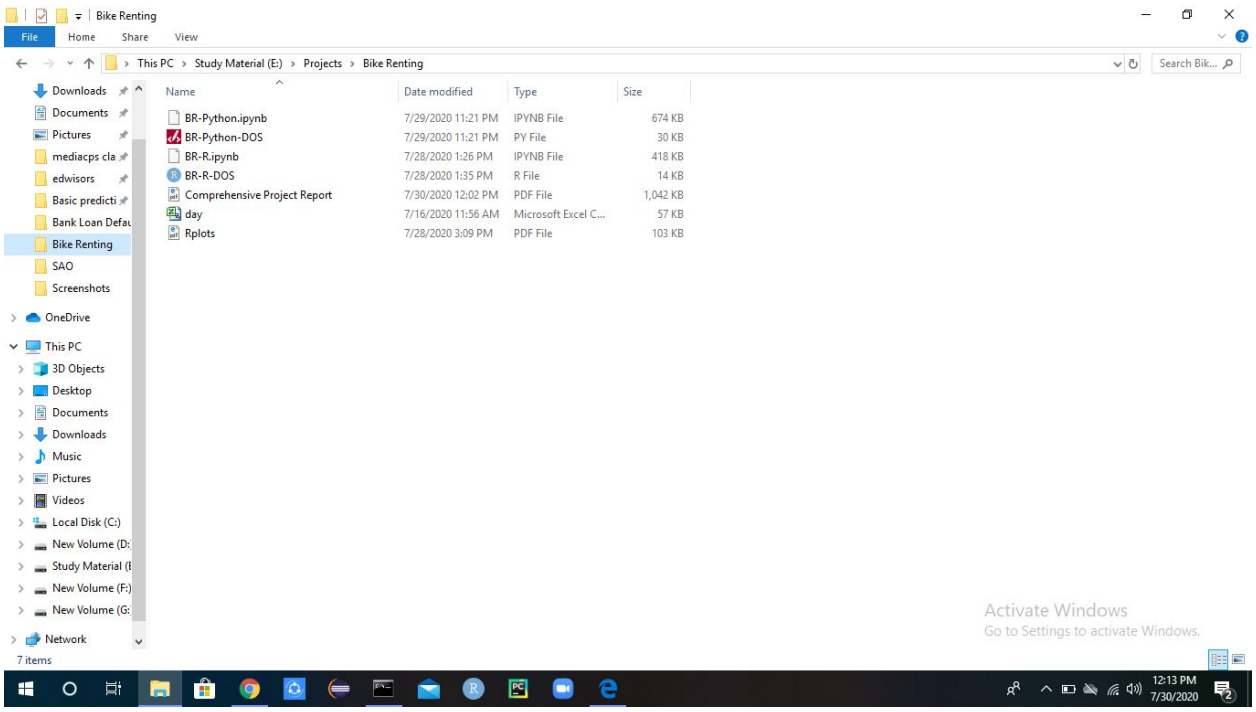
★ Instruction to deploy and run code

1. Python and R code files:

1.1 DOS executable code files
1.2 Jupyter notebooks

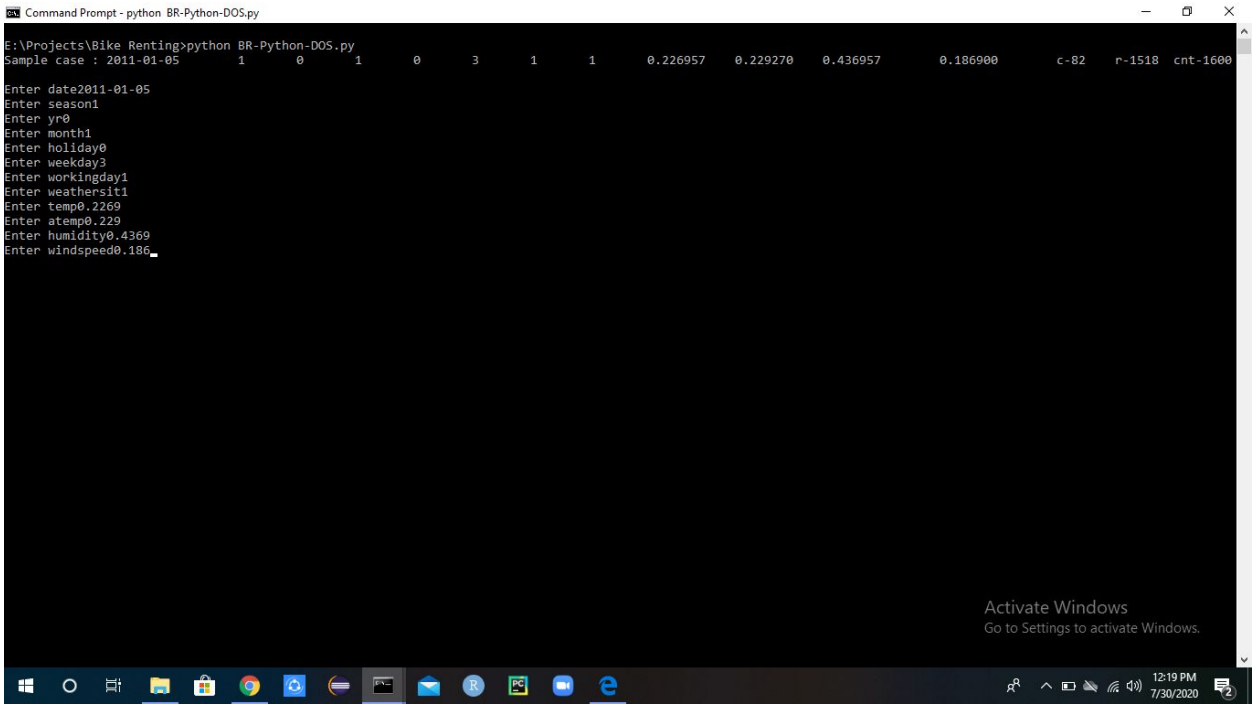
1. Python and R code files: Just in case, if the R file charts are not able to work properly, so I've attached these two alternative Jupyter notebooks for the evaluation of both Python and R files. Also, the plots will not appear when we R script through command line and rather they will be stored in a pdf format (Rplots.pdf) in the current working directory whose snippet I've attached just below:



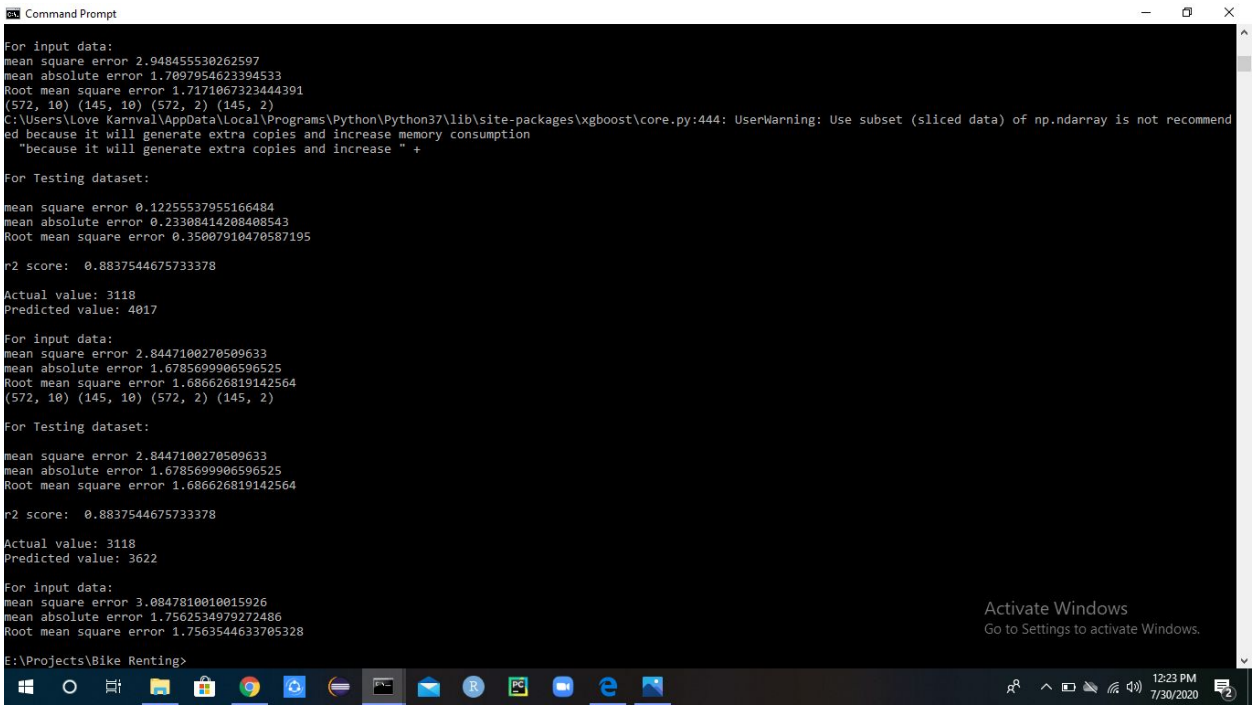
1.1 DOS executable code files Python-

For Python: BR-Python-DOS.py

Start

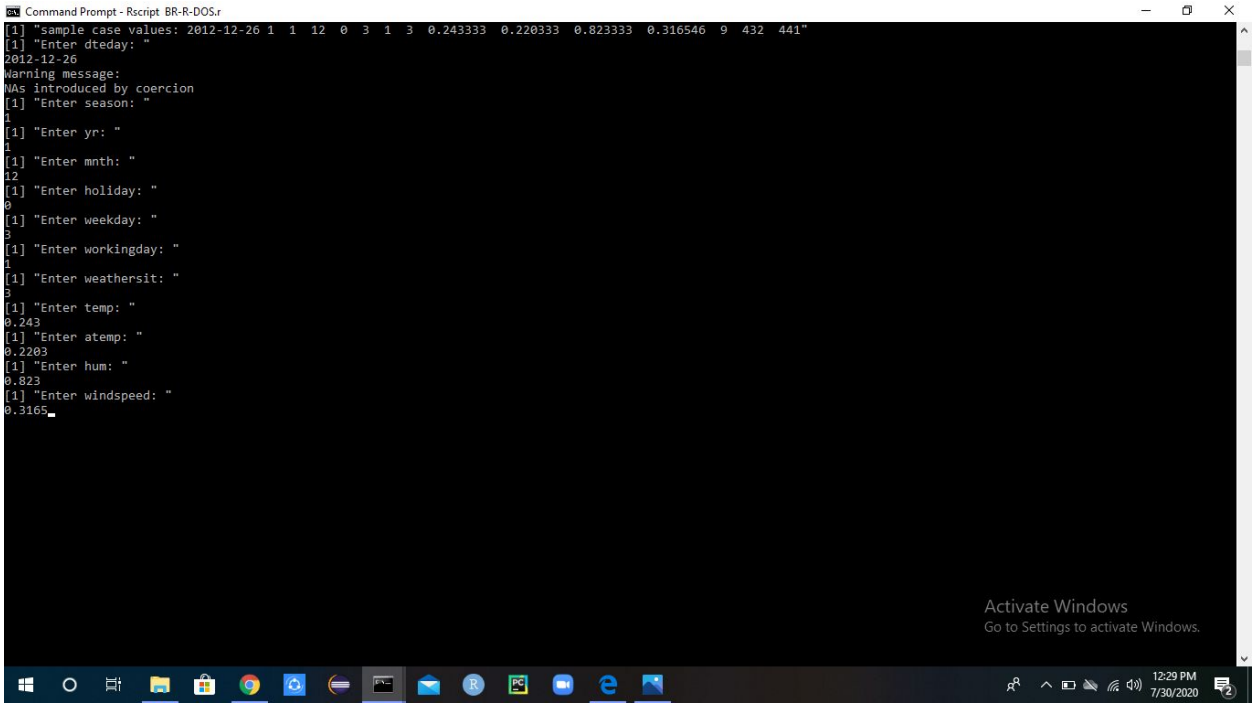

Command Prompt - python BR-Python-DOS.py
E:\Projects\Bike Renting>python BR-Python-DOS.py
Sample case : 2011-01-05 1 0 1 0 3 1 1 0.226957 0.229270 0.436957 0.186900 c-82 r-1518 cnt-1600
Enter date2011-01-05
Enter season1
Enter yr0
Enter month1
Enter holiday0
Enter weekday3
Enter workingday1
Enter weathersit1
Enter temp0.2269
Enter atemp0.229
Enter humidity0.4369
Enter windspeed0.186
Activate Windows
Go to Settings to activate Windows.
12:19 PM
7/30/2020

End

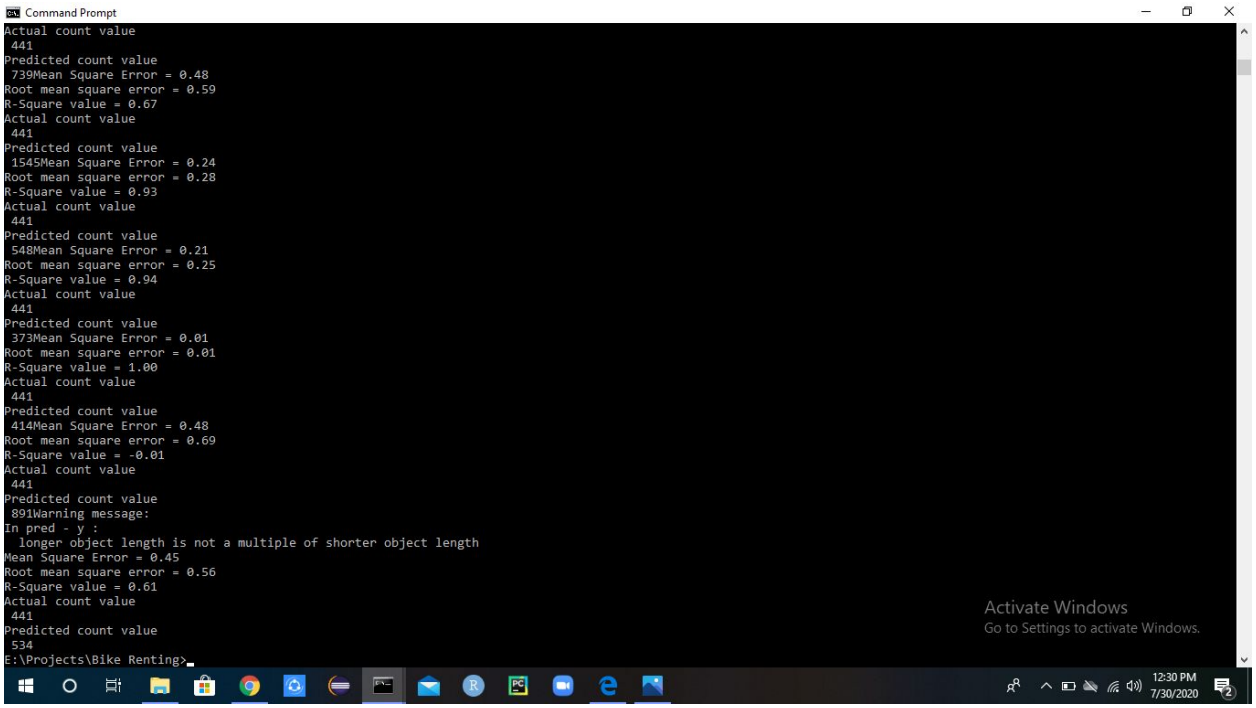

Command Prompt
For input data:
mean square error 2.948455530262597
mean absolute error 1.7097954623394533
Root mean square error 1.7171067323444391
(572, 10) (145, 10) (572, 2) (145, 2)
C:\Users\Love Karnval\AppData\Local\Programs\Python\Python37\lib\site-packages\xgboost\core.py:444: UserWarning: Use subset (sliced data) of np.ndarray is not recommend
ed because it will generate extra copies and increase memory consumption
"because it will generate extra copies and increase " +
For Testing dataset:
mean square error 0.12255537955166484
mean absolute error 0.23308414208408543
Root mean square error 0.35007910470587195
r2 score: 0.8837544675733378
Actual value: 3118
Predicted value: 4017
For input data:
mean square error 2.8447100270509633
mean absolute error 1.6785699906596525
Root mean square error 1.686626819142564
(572, 10) (145, 10) (572, 2) (145, 2)
For Testing dataset:
mean square error 2.8447100270509633
mean absolute error 1.6785699906596525
Root mean square error 1.686626819142564
r2 score: 0.8837544675733378
Actual value: 3118
Predicted value: 3622
For input data:
mean square error 3.0847810010015926
mean absolute error 1.7562534979272486
Root mean square error 1.7563544633705328
E:\Projects\Bike Renting>
Activate Windows
Go to Settings to activate Windows.
12:23 PM
7/30/2020

For R : BR-R-DOS.r

Start



End



1.2 Jupyter notebooks

For Python - BR-Python.ipynb
For R - BR-R.ipynb

---------- Thank you for your time to read the comprehensive report ----------