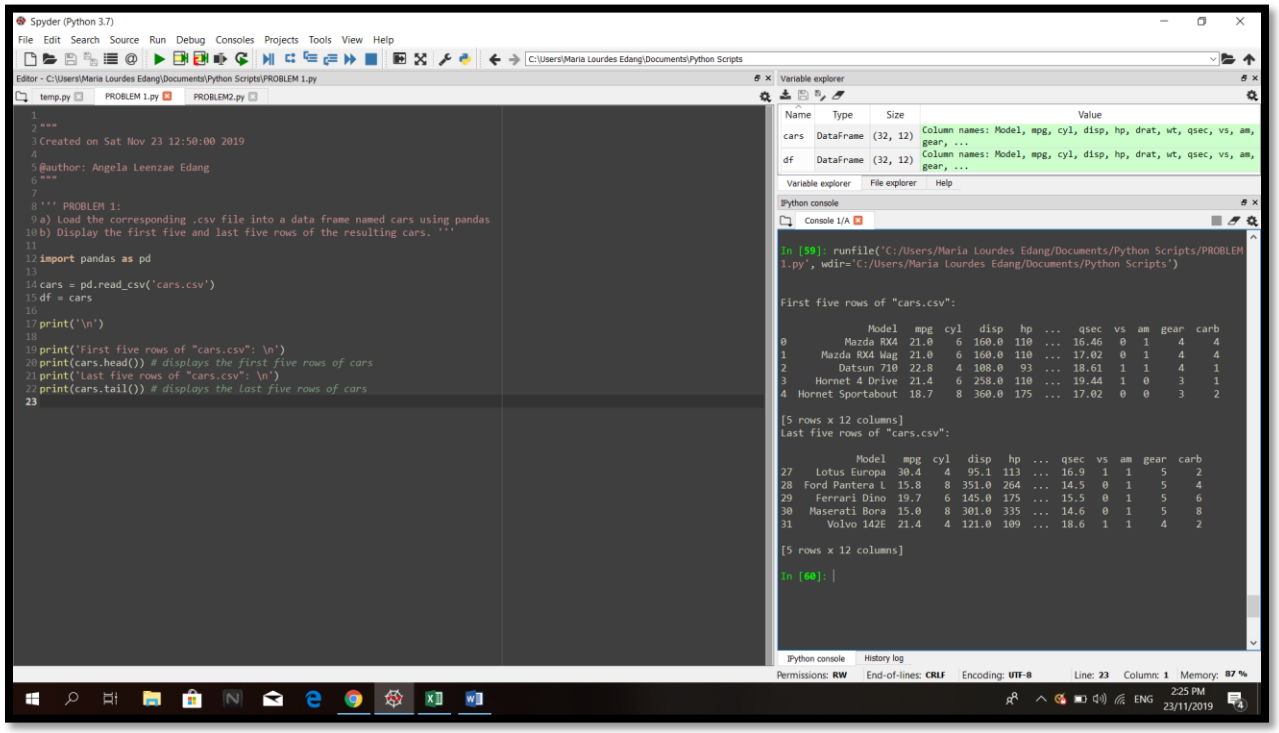
Lei-Ann Edang
2ECE-A

November 23, 2019
Programming Assignment

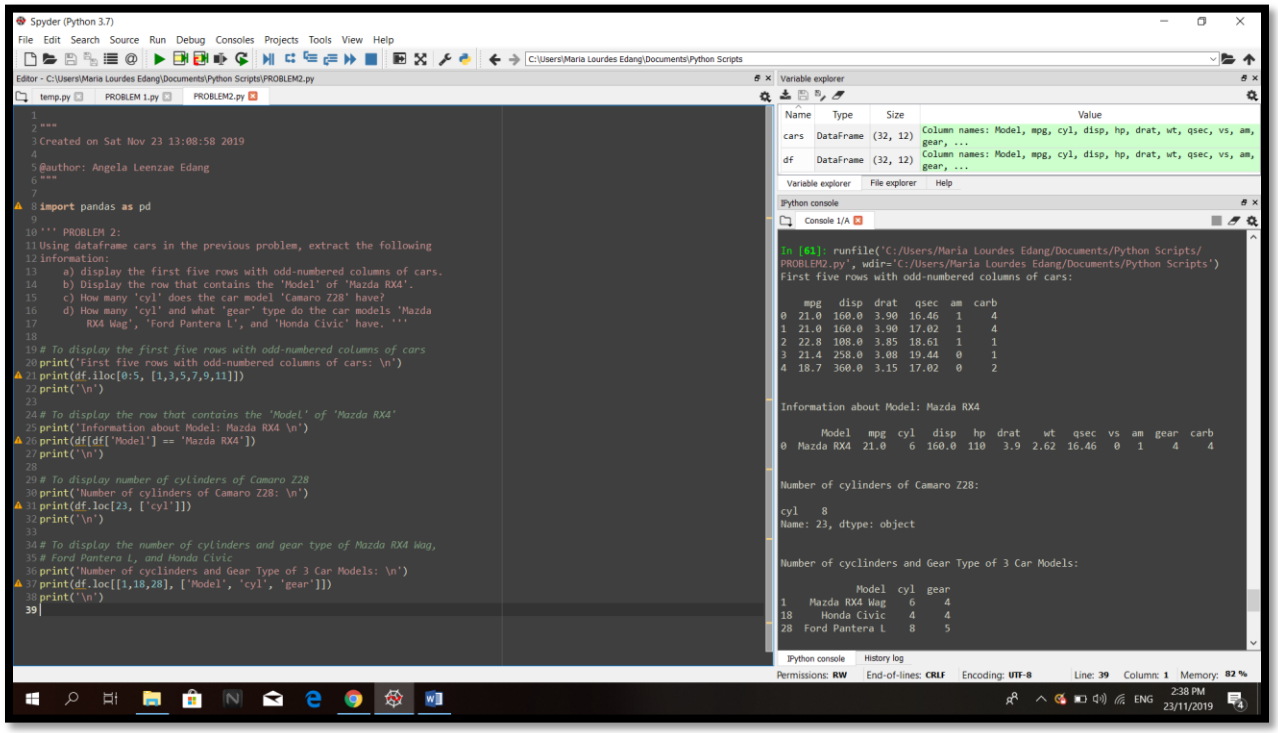
EXPERIMENT 8

PANDAS

Problem 1:



Problem 2:


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Maria Lourdes Edang\Documents\Python Scripts
Editor - C:\Users\Maria Lourdes Edang\Documents\Python Scripts\PROBLEM2.py
temp.py
PROBLEM 1.py
PROBLEM2.py
"""
Created on Sat Nov 23 13:08:58 2019
@author: Angela Leenzae Edang
"""
import pandas as pd
''' PROBLEM 2:
Using dataframe cars in the previous problem, extract the following
information:
a) display the first five rows with odd-numbered columns of cars.
b) Display the row that contains the 'Model' of 'Mazda RX4'.
c) How many 'cyl' does the car model 'Camaro Z28' have?
d) How many 'cyl' and what 'gear' type do the car models 'Mazda
RX4 Wag', 'Ford Pantera L', and 'Honda Civic' have. '''
# To display the first five rows with odd-numbered columns of cars
print('First five rows with odd-numbered columns of cars: \n')
print(df.iloc[0:5, [1,3,5,7,9,11]])
print('\n')
# To display the row that contains the 'Model' of 'Mazda RX4'
print('Information about Model: Mazda RX4 \n')
print(df[df['Model'] == 'Mazda RX4'])
print('\n')
# To display number of cylinders of Camaro Z28
print('Number of cylinders of Camaro Z28: \n')
print(df.loc[23, ['cyl']])
print('\n')
# To display the number of cylinders and gear type of Mazda RX4 Wag,
# Ford Pantera L, and Honda Civic
print('Number of cyclinders and Gear Type of 3 Car Models: \n')
print(df.loc[[1,18,28], ['Model', 'cyl', 'gear']])
print('\n')
Variable explorer
Name Type Size Value
cars DataFrame (32, 12) Column names: Model, mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, ...
df DataFrame (32, 12) Column names: Model, mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, ...
Variable explorer File explorer Help
IPython console
Console 1/A
In [61]: runfile('C:/Users/Maria Lourdes Edang/Documents/Python Scripts/PROBLEM2.py', wdir='C:/Users/Maria Lourdes Edang/Documents/Python Scripts')
First five rows with odd-numbered columns of cars:
mpg disp drat qsec am carb
0 21.0 160.0 3.90 16.46 1 4
1 21.0 160.0 3.90 17.02 1 4
2 22.8 108.0 3.85 18.61 1 1
3 21.4 258.0 3.08 19.44 0 1
4 18.7 360.0 3.15 17.02 0 2
Information about Model: Mazda RX4
Model mpg cyl disp hp drat wt qsec vs am gear carb
0 Mazda RX4 21.0 6 160.0 110 3.9 2.62 16.46 0 1 4 4
Number of cylinders of Camaro Z28:
cyl 8
Name: 23, dtype: object
Number of cyclinders and Gear Type of 3 Car Models:
Model cyl gear
1 Mazda RX4 Wag 6 4
18 Honda Civic 4 4
28 Ford Pantera L 8 5
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 39 Column: 1 Memory: 82 %
ENG 2:38 PM 23/11/2019