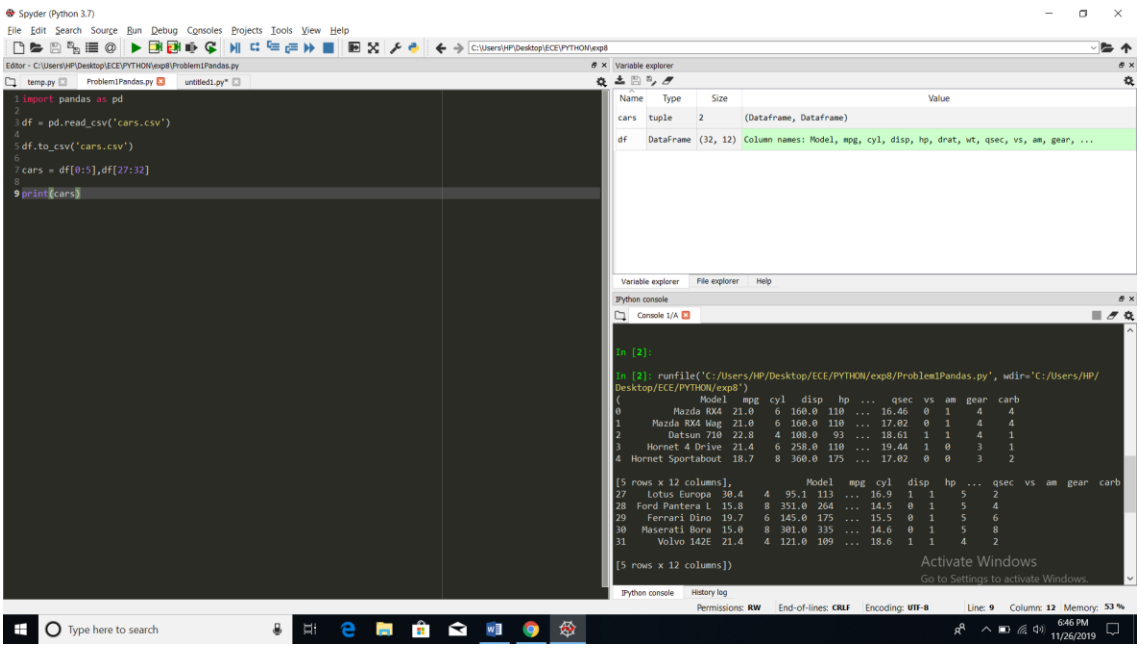
Malabanan, Angelo Quim C.
2ECE-A

Problem 1.)



*The whole Table 'cars.csv'


df - DataFrame
Index Model mpg cyl disp hp drat wt qsec vs am gear carb
9 Merc 280 19.2 6 167.6 123 3.92 3.44 18.3 1 0 4 4
10 Merc 280C 17.8 6 167.6 123 3.92 3.44 18.9 1 0 4 4
11 Merc 450SE 16.4 8 275.8 180 3.07 4.07 17.4 0 0 3 3
12 Merc 450SL 17.3 8 275.8 180 3.07 3.73 17.6 0 0 3 3
13 Merc 450SLC 15.2 8 275.8 180 3.07 3.78 18 0 0 3 3
14 Cadillac Fleetwood 10.4 8 472 205 2.93 5.25 17.98 0 0 3 4
15 Lincoln Continental 10.4 8 460 215 3 5.424 17.82 0 0 3 4
16 Chrysler Imperial 14.7 8 440 230 3.23 5.345 17.42 0 0 3 4
17 Fiat 128 32.4 4 78.7 66 4.08 2.2 19.47 1 1 4 1
18 Honda Civic 30.4 4 75.7 52 4.93 1.615 18.52 1 1 4 2
19 Toyota Corolla 33.9 4 71.1 65 4.22 1.835 19.9 1 1 4 1
20 Toyota Corona 21.5 4 120.1 97 3.7 2.465 20.01 1 0 3 1
21 Dodge Challenger 15.5 8 318 150 2.76 3.52 16.87 0 0 3 2
22 AMC Javelin 15.2 8 304 150 3.15 3.435 17.3 0 0 3 2
23 Camaro Z28 13.3 8 350 245 3.73 3.84 15.41 0 0 3 4
24 Pontiac Firebird 19.2 8 400 175 3.08 3.845 17.05 0 0 3 2
25 Fiat X1-9 27.3 4 79 66 4.08 1.935 18.9 1 1 4 1
26 Porsche 914-2 26 4 120.3 91 4.43 2.14 16.7 0 1 5 2
27 Lotus Europa 30.4 4 95.1 113 3.77 1.513 16.9 1 1 5 2
28 Ford Pantera L 15.8 8 351 264 4.22 3.17 14.5 0 1 5 4
29 Ferrari Dino 19.7 6 145 175 3.62 2.77 15.5 0 1 5 6
30 Maserati Bora 15 8 301 335 3.54 3.57 14.6 0 1 5 8
31 Volvo 142E 21.4 4 121 109 4.11 2.78 18.6 1 1 4 2
Format Resize Background color Column min/max
Save and Close Close
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 9 Column: 12 Memory: 56 %
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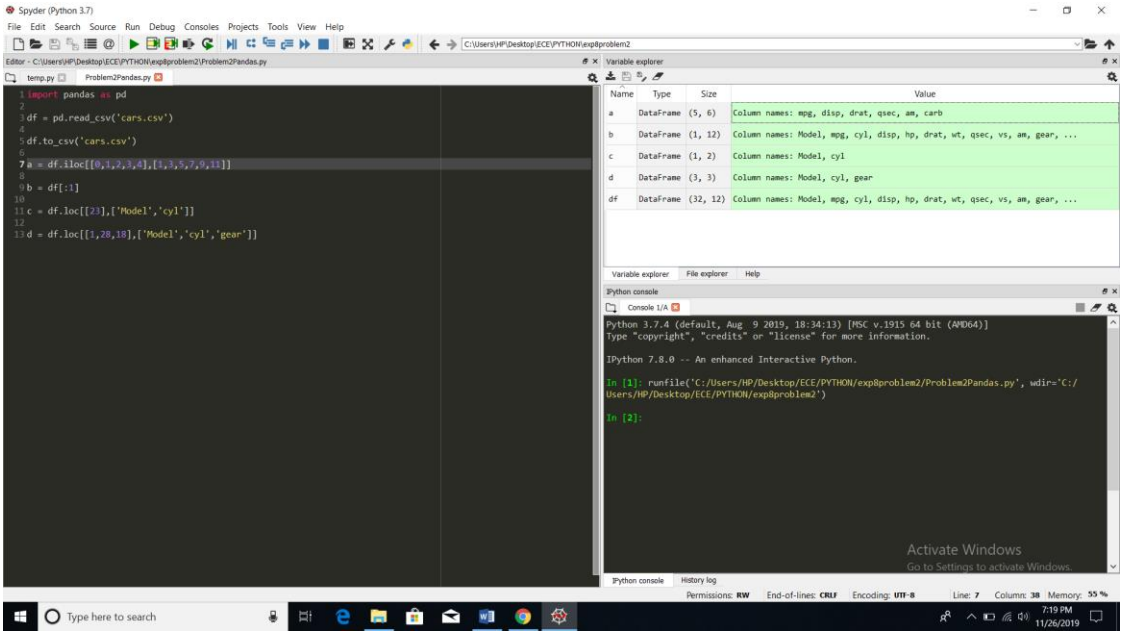
6:57 PM 11/26/2019

Problem 2.)


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
Editor - C:\Users\HP\Desktop\ECE\PYTHON\exp8problem2\Problem2Pandas.py
temp.py Problem2Pandas.py
1 import pandas as pd
2
3 df = pd.read_csv('cars.csv')
4
5 df.to_csv('cars.csv')
6
7 a = df.iloc[[0,1,2,3,4],[1,3,5,7,9,11]]
8
9 b = df[:1]
10
11 c = df.loc[[23],['Model','cyl']]
12
13 d = df.loc[[1,28,18],['Model','cyl','gear']]
Variable explorer
Name Type Size Value
a DataFrame (5, 6) Column names: mpg, disp, drat, qsec, am, carb
b DataFrame (1, 12) Column names: Model, mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, ...
c DataFrame (1, 2) Column names: Model, cyl
d DataFrame (3, 3) Column names: Model, cyl, 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
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.8.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/HP/Desktop/ECE/PYTHON/exp8problem2/Problem2Pandas.py', wdir='C:/Users/HP/Desktop/ECE/PYTHON/exp8problem2')
In [2]:
Activate Windows
Go to Settings to activate Windows.
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 7 Column: 38 Memory: 55 %
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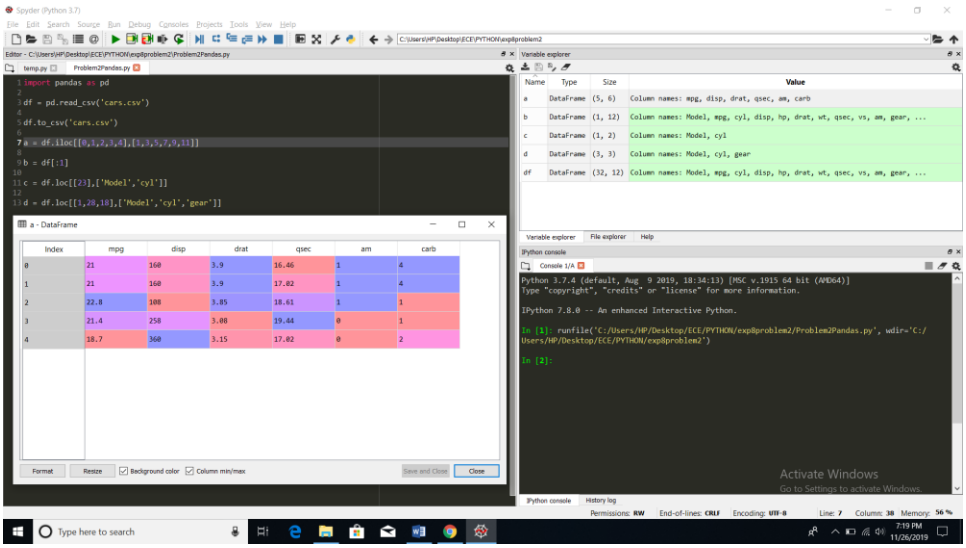
A.)


import pandas as pd
df = pd.read_csv('cars.csv')
df.to_csv('cars.csv')
a = df.iloc[[0,1,2,3,4],[1,3,5,7,9,11]]
b = df[:1]
c = df.loc[[23],['Model','cyl']]
d = df.loc[[1,28,18],['Model','cyl','gear']]
a - DataFrame
Index mpg disp drat qsec am carb
0 21 160 3.9 16.46 1 4
1 21 160 3.9 17.02 1 4
2 22.8 108 3.85 18.61 1 1
3 21.4 258 3.08 19.44 0 1
4 18.7 360 3.15 17.02 0 2
Format
Resize
Background color
Column min/max
Save and Close
Close
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)]
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In [2]:
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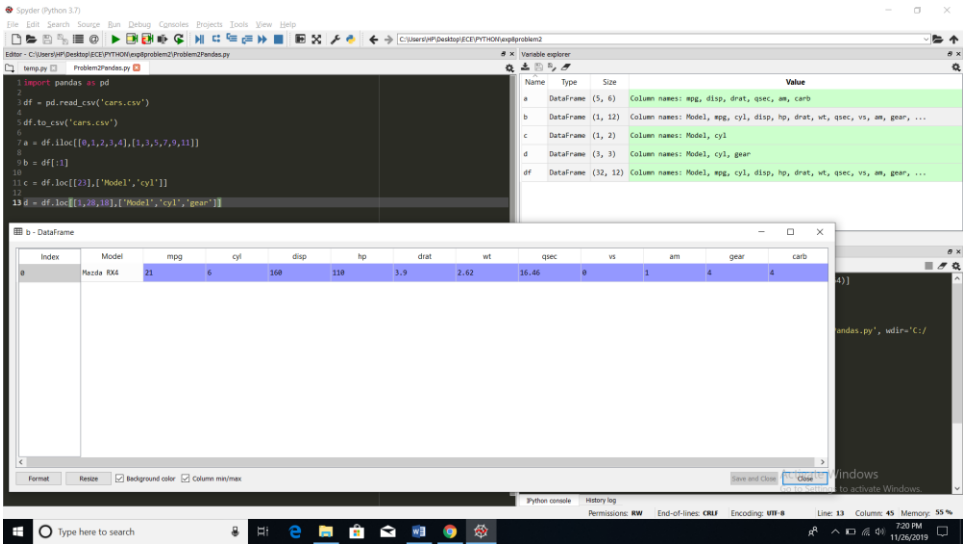
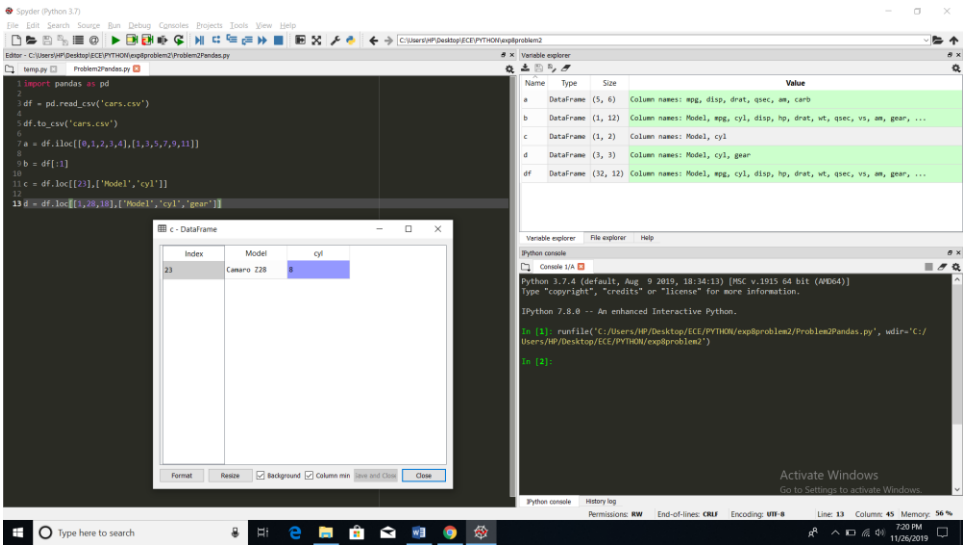
b.)


import pandas as pd
df = pd.read_csv('cars.csv')
df.to_csv('cars.csv')
a = df.iloc[[0,1,2,3,4],[1,3,5,7,9,11]]
b = df[:1]
c = df.loc[[23],['Model','cyl']]
d = df.loc[[1,28,18],['Model','cyl','gear']]
b - DataFrame
Index Model mpg cyl disp hp drat wt qsec vs am gear carb
0 Mazda RX4 21 6 160 110 3.9 2.62 16.46 0 1 4 4
Format
Resize
Background color
Column min/max
Save and Close
Close
Type here to search

c.)


import pandas as pd
df = pd.read_csv('cars.csv')
df.to_csv('cars.csv')
a = df.iloc[[0,1,2,3,4],[1,3,5,7,9,11]]
b = df[:1]
c = df.loc[[23],['Model','cyl']]
d = df.loc[[1,28,18],['Model','cyl','gear']]
c - DataFrame
Index
Model
cyl
23
Camaro Z28
8
Format
Resize
Background
Column min
Save and Close
Close
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)]
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IPython 7.8.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/HP/Desktop/ECE/PYTHON/exp8problem2/Problem2Pandas.py', wdir='C:/Users/HP/Desktop/ECE/PYTHON/exp8problem2')
In [2]:
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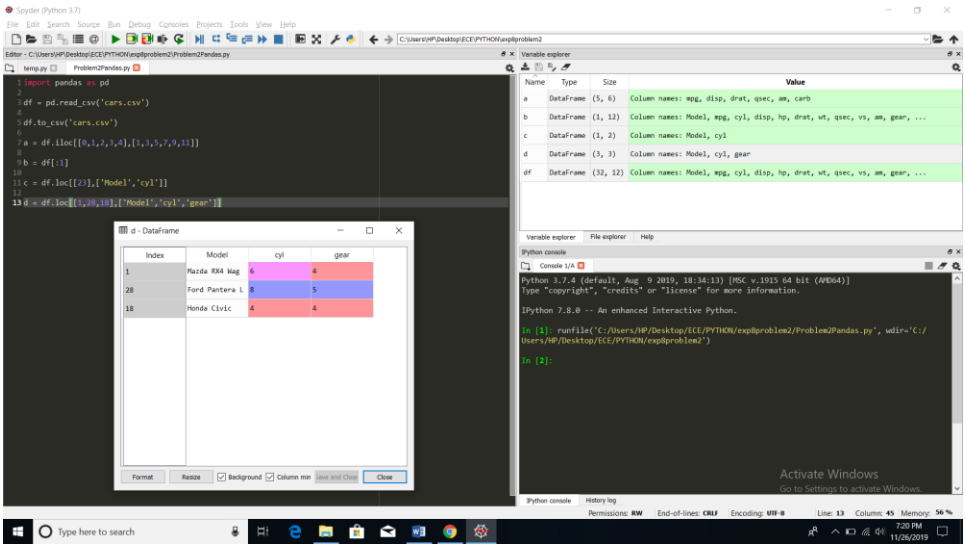
11/26/2019

d.)


import pandas as pd
df = pd.read_csv('cars.csv')
df.to_csv('cars.csv')
a = df.iloc[[0,1,2,3,4],[1,3,5,7,9,11]]
b = df[:1]
c = df.loc[[23],['Model','cyl']]
d = df.loc[[1,28,18],['Model','cyl','gear']]
d - DataFrame
Index
Model
cyl
gear
1
Mazda RX4 Wag
6
4
28
Ford Pantera L
8
5
18
Honda Civic
4
4
Format
Resize
Background
Column min
Save and Close
Close
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)]
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IPython 7.8.0 -- An enhanced Interactive Python.
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In [2]:
Activate Windows
Go to Settings to activate Windows.
Type here to search
7:20 PM
11/26/2019