Lei-Ann Edang

2ECE-A

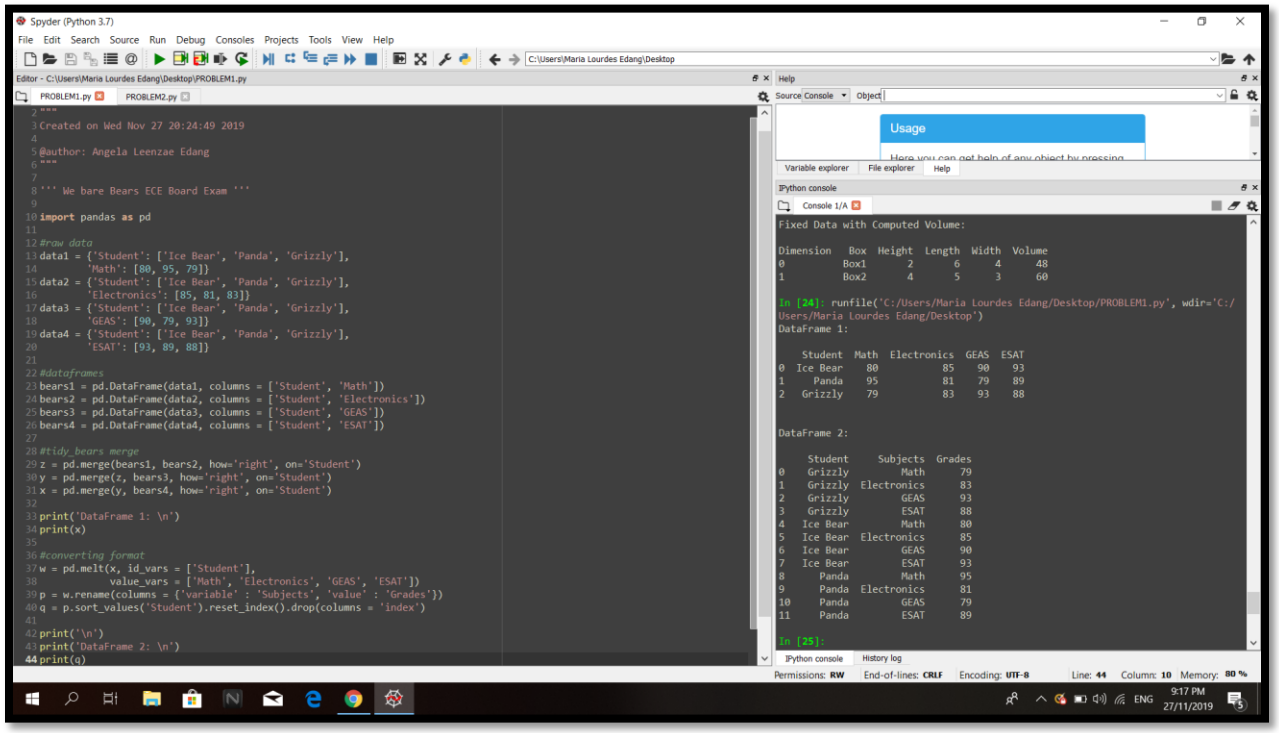
November 23, 2019

Programming Assignment

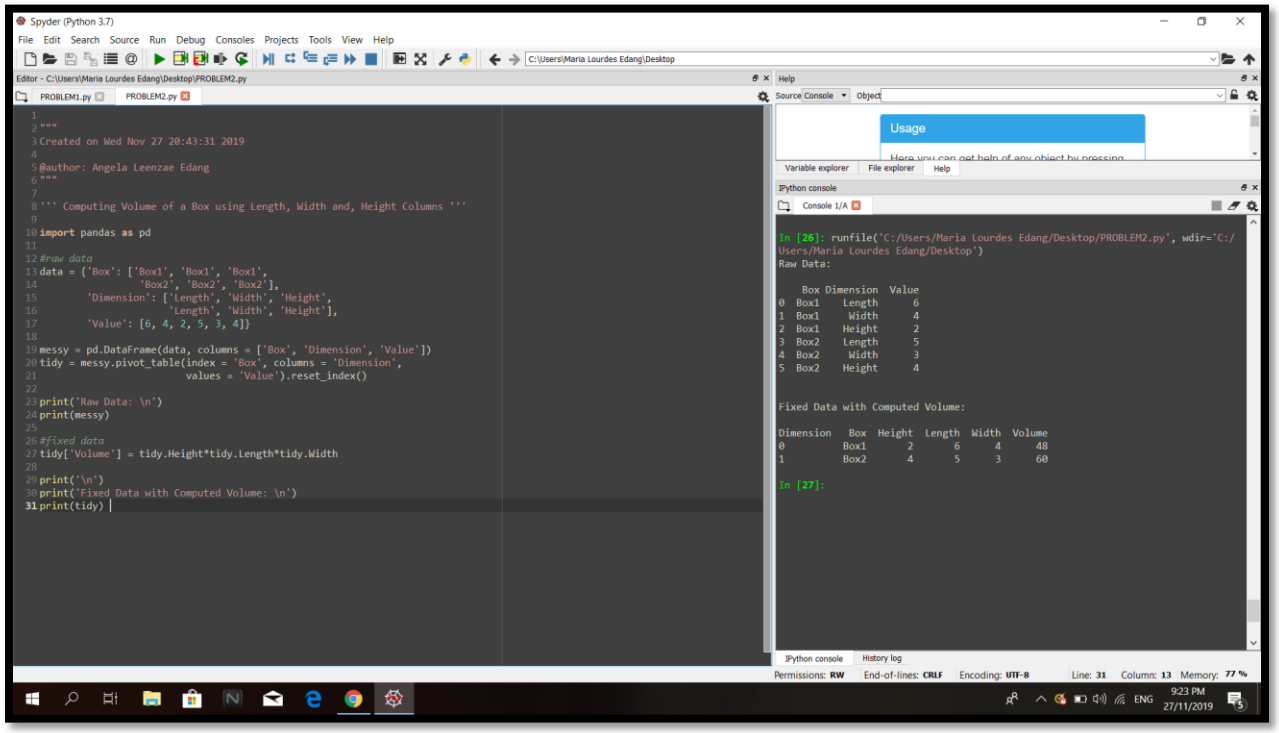
EXPERIMENT 9

DATA WRANGLING USING 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\Desktop
Editor - C:\Users\Maria Lourdes Edang\Desktop\PROBLEM2.py
PROBLEM1.py
PROBLEM2.py
"""
Created on Wed Nov 27 20:43:31 2019
@author: Angela Leenzae Edang
"""
''' Computing Volume of a Box using Length, Width and, Height Columns '''
import pandas as pd
#raw data
data = {'Box': ['Box1', 'Box1', 'Box1',
'Box2', 'Box2', 'Box2'],
'Dimension': ['Length', 'Width', 'Height',
'Length', 'Width', 'Height'],
'Value': [6, 4, 2, 5, 3, 4]}
messy = pd.DataFrame(data, columns = ['Box', 'Dimension', 'Value'])
tidy = messy.pivot_table(index = 'Box', columns = 'Dimension',
values = 'Value').reset_index()
print('Raw Data: \n')
print(messy)
#fixed data
tidy['Volume'] = tidy.Height*tidy.Length*tidy.Width
print('\n')
print('Fixed Data with Computed Volume: \n')
print(tidy)
Help
Source Console
Object
Usage
Variable explorer
File explorer
Help
IPython console
Console 1/A
In [26]: runfile('C:/Users/Maria Lourdes Edang/Desktop/PROBLEM2.py', wdir='C:/Users/Maria Lourdes Edang/Desktop')
Raw Data:
Box Dimension Value
0 Box1 Length 6
1 Box1 Width 4
2 Box1 Height 2
3 Box2 Length 5
4 Box2 Width 3
5 Box2 Height 4
Fixed Data with Computed Volume:
Dimension Box Height Length Width Volume
0 Box1 2 6 4 48
1 Box2 4 5 3 60
In [27]:
IPython console
History log
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 31
Column: 13
Memory: 77 %
ENG
9:23 PM
27/11/2019