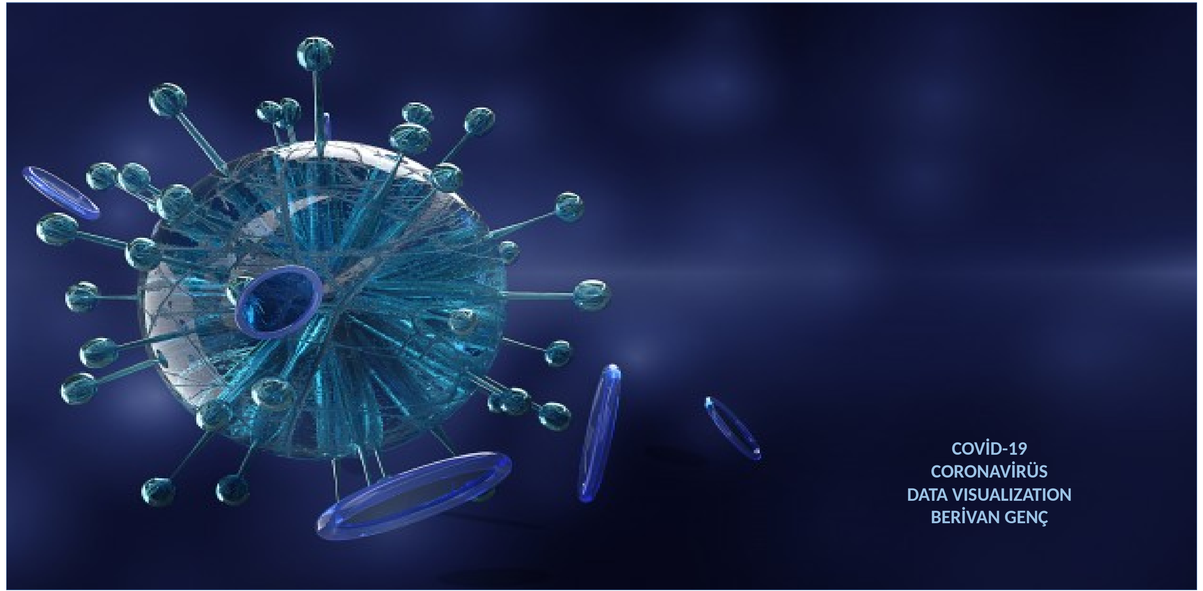
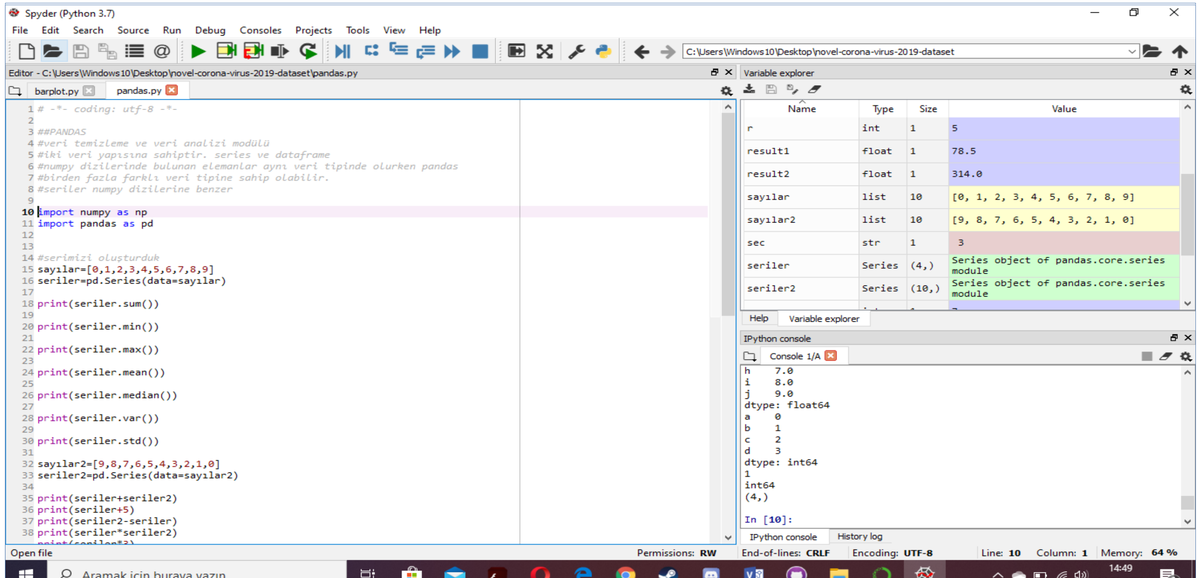
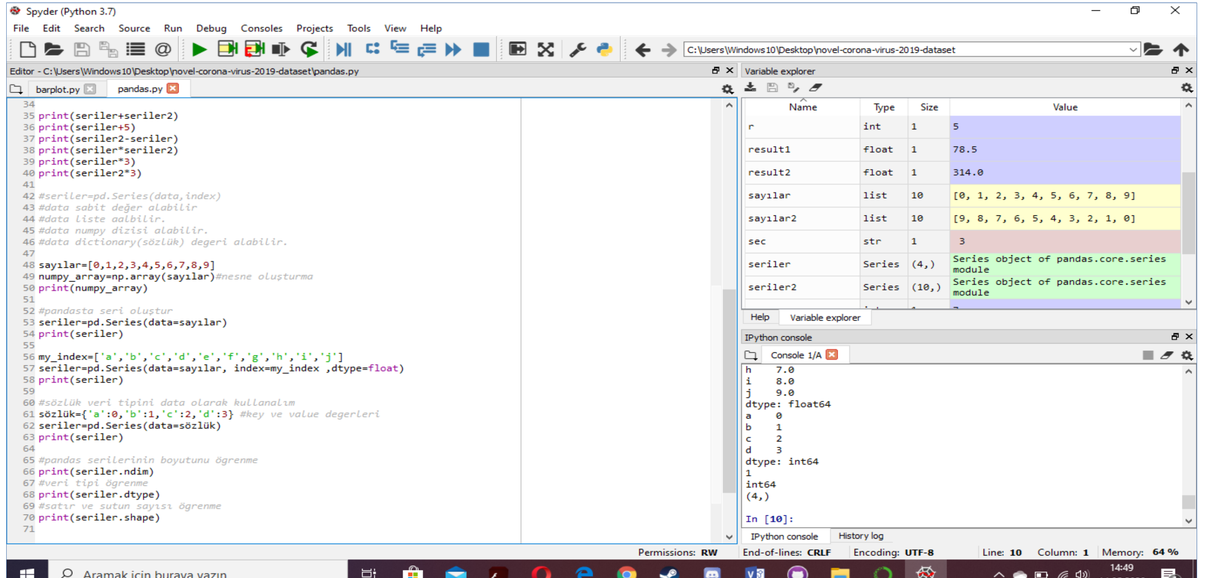
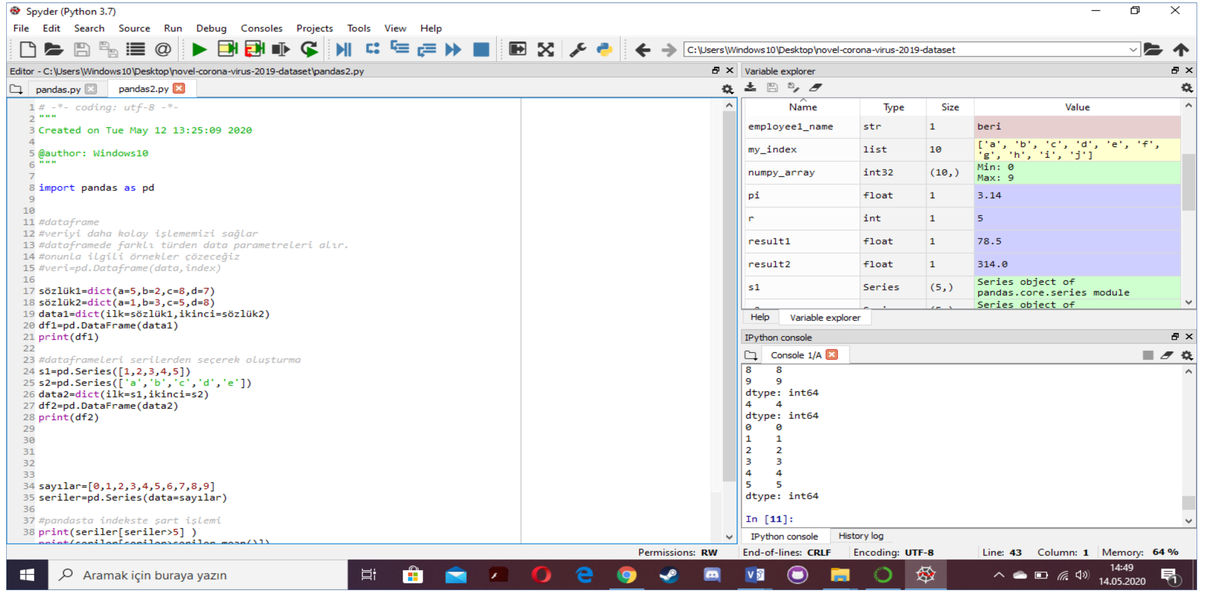
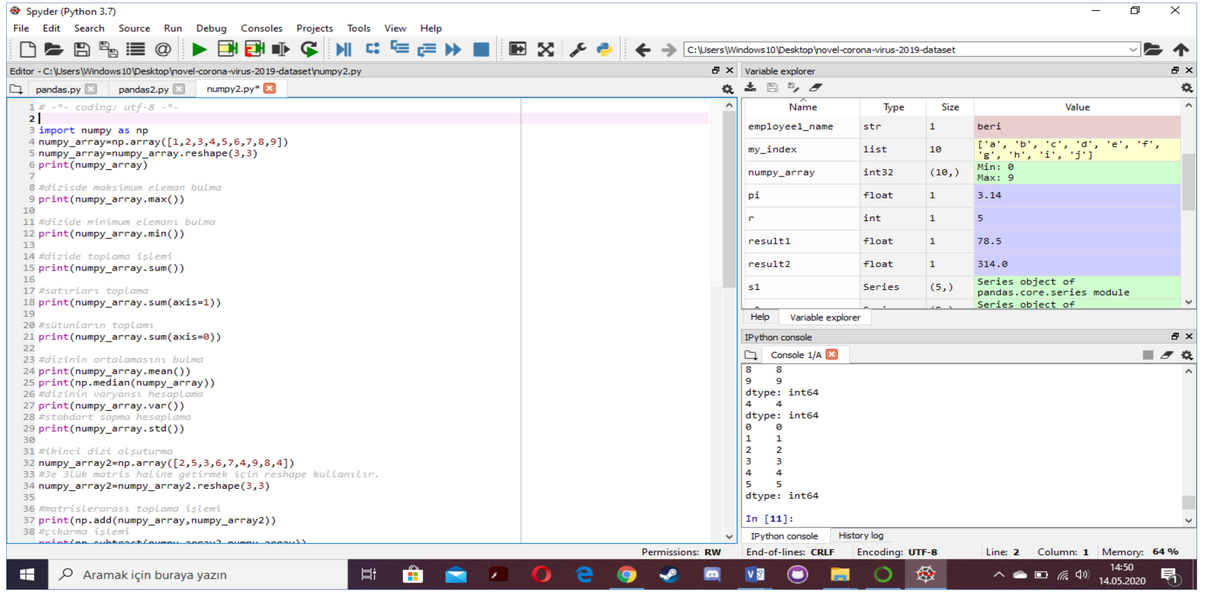
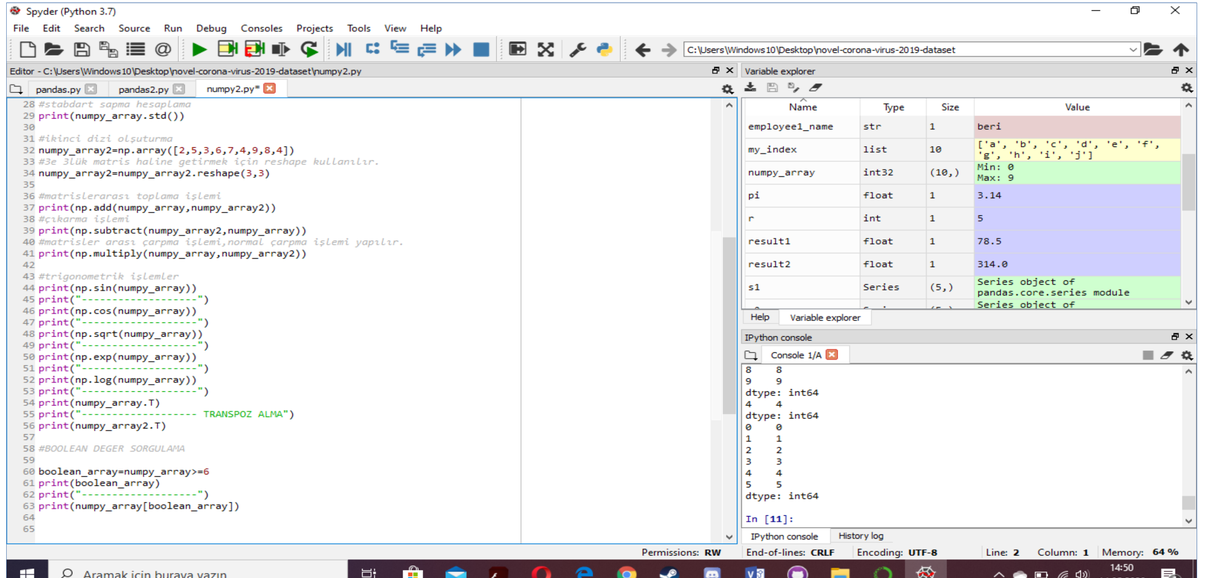

COVİD-19
CORONAVİRÜS
DATA VISUALIZATION
BERİVAN GENÇ

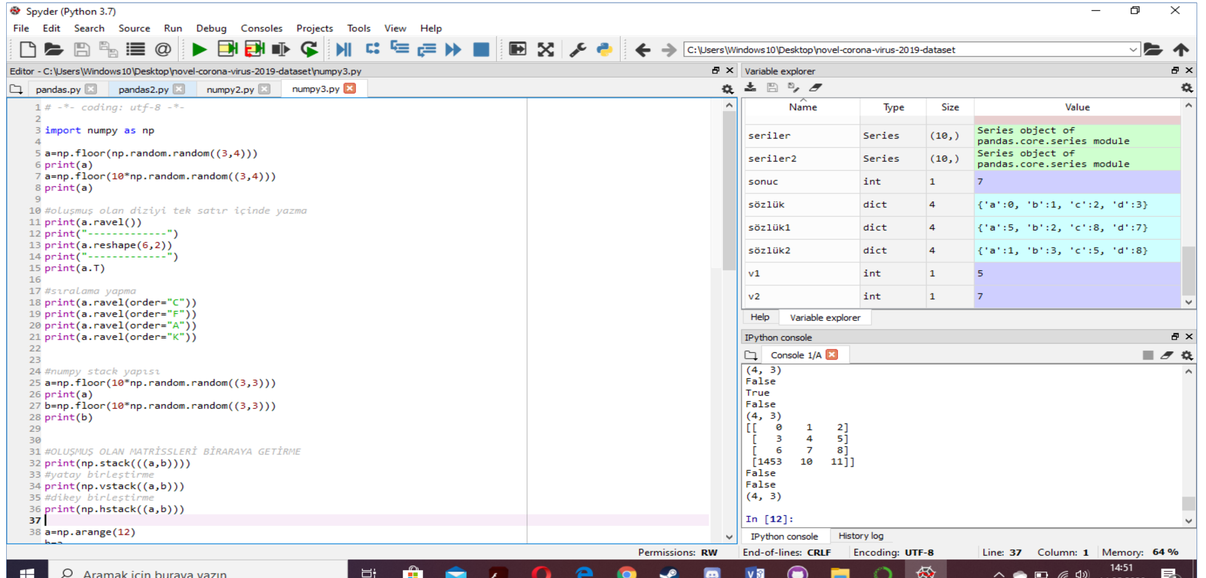

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\pandas.py
barplot.py
pandas.py
-*- coding: utf-8 -*-
##PANDAS
#veri temizleme ve veri analizi modülü
#iki veri yapısına sahiptir. series ve dataframe
#numpy dizilerinde bulunan elemanlar aynı veri tipinde olurken pandas
#birden fazla farklı veri tipine sahip olabilir.
#seriler numpy dizilerine benzer
#import numpy as np
import pandas as pd
#serimizi oluşturduk
sayılar=[0,1,2,3,4,5,6,7,8,9]
seriler=pd.Series(data=sayılar)
print(seriler.sum())
print(seriler.min())
print(seriler.max())
print(seriler.mean())
print(seriler.median())
print(seriler.var())
print(seriler.std())
sayılar2=[9,8,7,6,5,4,3,2,1,0]
seriler2=pd.Series(data=sayılar2)
print(seriler+seriler2)
print(seriler+5)
print(seriler2-seriler)
print(seriler*seriler2)
Variable explorer
Name Type Size Value
r int 1 5
result1 float 1 78.5
result2 float 1 314.0
sayılar list 10 [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
sayılar2 list 10 [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
sec str 1 3
seriler Series (4,) Series object of pandas.core.series module
seriler2 Series (10,) Series object of pandas.core.series module
Help
Variable explorer
IPython console
Console 1/A
h 7.0
i 8.0
j 9.0
dtype: float64
a 0
b 1
c 2
d 3
dtype: int64
1
int64
(4,)
In [10]:
IPython console
History log
Open file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 10
Column: 1
Memory: 64 %
Aramak için buraya yazın
14:49
14.05.2020

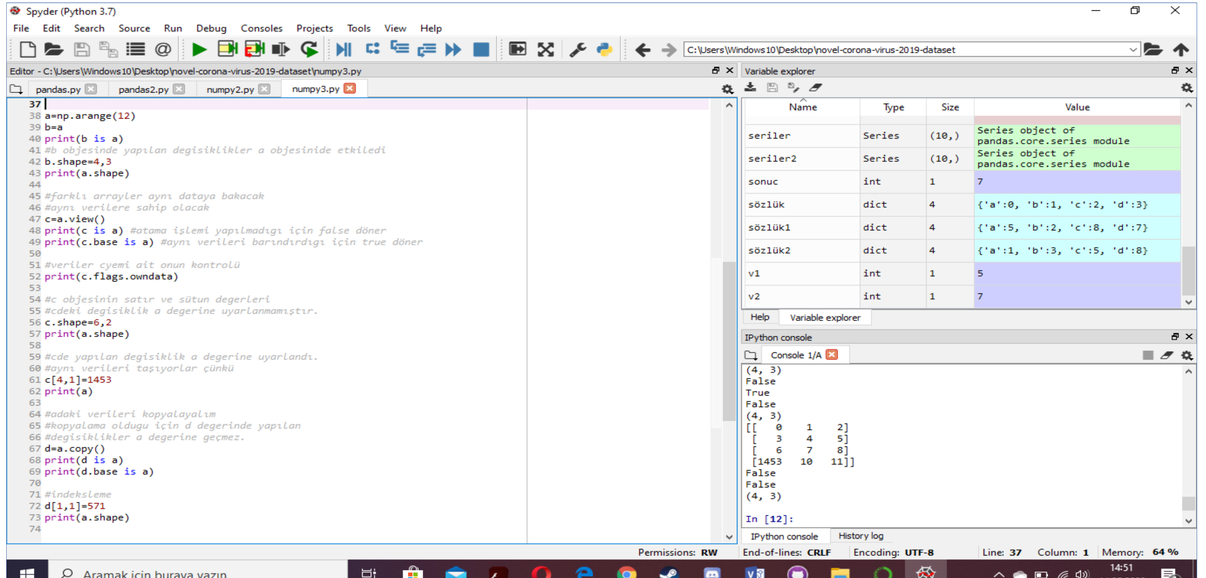

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\pandas.py
barplot.py
pandas.py
print(seriler+seriler2)
print(seriler+5)
print(seriler2-seriler)
print(seriler*seriler2)
print(seriler*3)
print(seriler2*3)
#seriler=pd.Series(data,index)
#data sabit değer alabilir
#data liste alıbilir.
#data numpy dizisi alabilir.
#data dictionary(sözlük) degeri alabilir.
sayılar=[0,1,2,3,4,5,6,7,8,9]
numpy_array=np.array(sayılar)#nesne oluşturma
print(numpy_array)
#pandasta seri oluştur
seriler=pd.Series(data=sayılar)
print(seriler)
my_index=['a','b','c','d','e','f','g','h','i','j']
seriler=pd.Series(data=sayılar, index=my_index ,dtype=float)
print(seriler)
#sözlük veri tipini data olarak kullanalım
sözlük={'a':0,'b':1,'c':2,'d':3} #key ve value degerleri
seriler=pd.Series(data=sözlük)
print(seriler)
#pandas serilerinin boyutunu ögrenme
print(seriler.ndim)
#veri tipi ögrenme
print(seriler.dtype)
#satır ve sutun sayısı ögrenme
print(seriler.shape)
Variable explorer
Name Type Size Value
r int 1 5
result1 float 1 78.5
result2 float 1 314.0
sayılar list 10 [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
sayılar2 list 10 [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
sec str 1 3
seriler Series (4,) Series object of pandas.core.series module
seriler2 Series (10,) Series object of pandas.core.series module
Help Variable explorer
IPython console
Console 1/A
h 7.0
i 8.0
j 9.0
dtype: float64
a 0
b 1
c 2
d 3
dtype: int64
1
int64
(4,)
In [10]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 10 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:49
14.05.2020

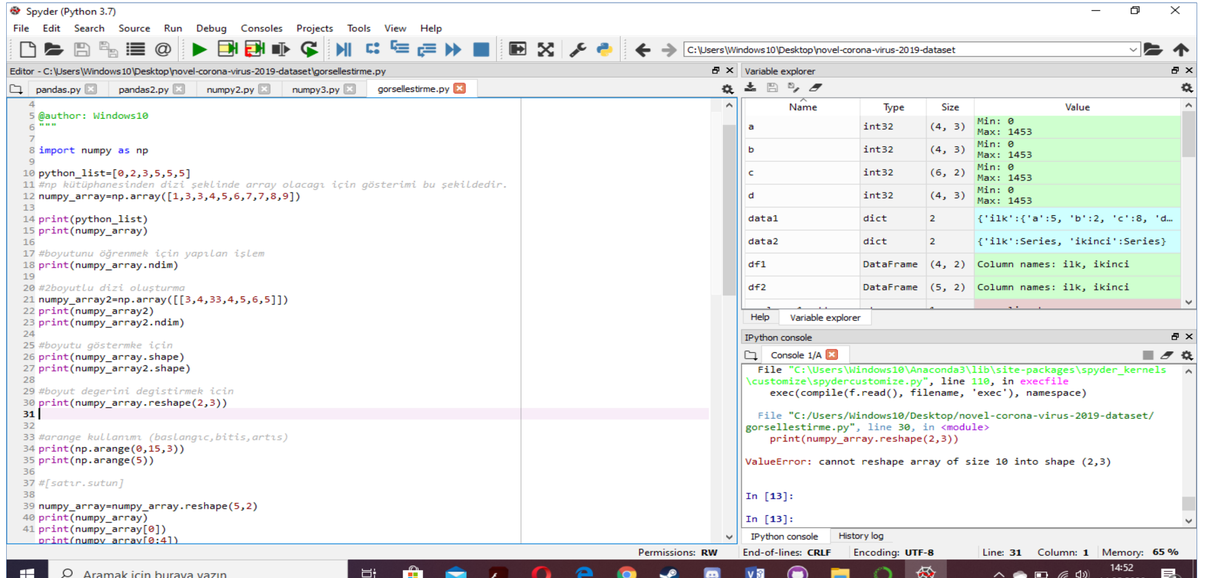

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\pandas2.py
pandas.py
pandas2.py
-*- coding: utf-8 -*-
"""
Created on Tue May 12 13:25:09 2020
@author: Windows10
"""
import pandas as pd
#dataframe
#veriyi daha kolay işlememizi sağlar
#dataframede farklı türden data parametreleri alır.
#onunla ilgili örnekler çözeceğiz
#veri=pd.Dataframe(data,index)
sözlük1=dict(a=5,b=2,c=8,d=7)
sözlük2=dict(a=1,b=3,c=5,d=8)
data1=dict(ilk=sözlük1,ikinci=sözlük2)
df1=pd.DataFrame(data1)
print(df1)
#dataframeleri serilerden seçerek oluşturma
s1=pd.Series([1,2,3,4,5])
s2=pd.Series(['a','b','c','d','e'])
data2=dict(ilk=s1,ikinci=s2)
df2=pd.DataFrame(data2)
print(df2)
sayılar=[0,1,2,3,4,5,6,7,8,9]
seriler=pd.Series(data=sayılar)
#pandasta indekste şart işlemi
print(seriler[seriler>5])
Variable explorer
Name Type Size Value
employee1_name str 1 beri
my_index list 10 ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']
numpy_array int32 (10,) Min: 0 Max: 9
pi float 1 3.14
r int 1 5
result1 float 1 78.5
result2 float 1 314.0
s1 Series (5,) Series object of pandas.core.series module
Help Variable explorer
IPython console
Console 1/A
8 8
9 9
dtype: int64
4 4
dtype: int64
0 0
1 1
2 2
3 3
4 4
5 5
dtype: int64
In [11]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 43 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:49
14.05.2020

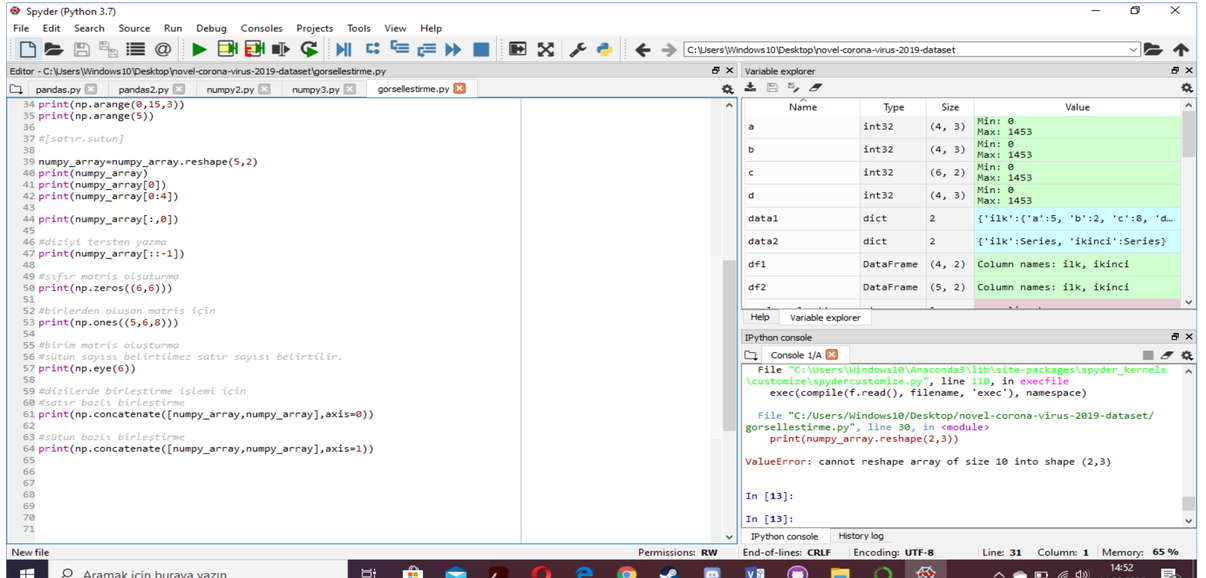

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\numpy2.py
pandas.py
pandas2.py
numpy2.py*
# -*- coding: utf-8 -*-
import numpy as np
numpy_array=np.array([1,2,3,4,5,6,7,8,9])
numpy_array=numpy_array.reshape(3,3)
print(numpy_array)
#dizisde maksimum eleman bulma
print(numpy_array.max())
#dizide minimum elemanı bulma
print(numpy_array.min())
#dizide toplama işlemi
print(numpy_array.sum())
#satırları toplama
print(numpy_array.sum(axis=1))
#sütunların toplamı
print(numpy_array.sum(axis=0))
#dizinin ortalamasını bulma
print(numpy_array.mean())
print(np.median(numpy_array))
#dizinin varyansı hesaplama
print(numpy_array.var())
#standart sapma hesaplama
print(numpy_array.std())
#ikinci dizi oluşturma
numpy_array2=np.array([2,5,3,6,7,4,9,8,4])
#3e 3lük matris haline getirmek için reshape kullanılır.
numpy_array2=numpy_array2.reshape(3,3)
#matrisleraası toplama işlemi
print(np.add(numpy_array,numpy_array2))
#cıkarma işlemi
Variable explorer
Name Type Size Value
employee1_name str 1 beri
my_index list 10 ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']
numpy_array int32 (10,) Min: 0 Max: 9
pi float 1 3.14
r int 1 5
result1 float 1 78.5
result2 float 1 314.0
s1 Series (5,) Series object of pandas.core.series module
Help Variable explorer
IPython console
Console 1/A
8 8
9 9
dtype: int64
4 4
dtype: int64
0 0
1 1
2 2
3 3
4 4
5 5
dtype: int64
In [11]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 2 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:50
14.05.2020

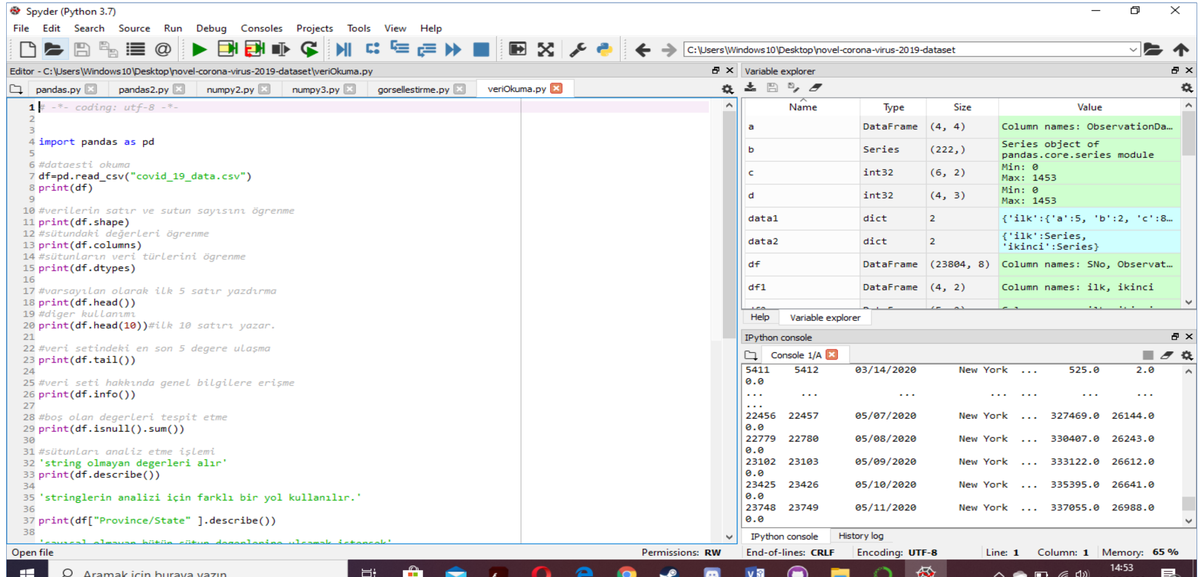

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\numpy2.py
pandas.py
pandas2.py
numpy2.py*
#stabdart sapma hesaplama
print(numpy_array.std())
#ikinci dizi oluşturma
numpy_array2=np.array([2,5,3,6,7,4,9,8,4])
#3e 3lük matris haline getirmek için reshape kullanılır.
numpy_array2=numpy_array2.reshape(3,3)
#matrisler arası toplama işlemi
print(np.add(numpy_array,numpy_array2))
#cıkarma işlemi
print(np.subtract(numpy_array2,numpy_array))
#matrisler arası çarpma işlemi,normal çarpma işlemi yapılır.
print(np.multiply(numpy_array,numpy_array2))
#trigonometrik işlemler
print(np.sin(numpy_array))
print("--------------------")
print(np.cos(numpy_array))
print("--------------------")
print(np.sqrt(numpy_array))
print("--------------------")
print(np.exp(numpy_array))
print("--------------------")
print(np.log(numpy_array))
print("--------------------")
print(numpy_array.T)
print("------------------- TRANSPOZ ALMA")
print(numpy_array2.T)
#BOOLEAN DEGER SORGULAMA
boolean_array=numpy_array>=6
print(boolean_array)
print("--------------------")
print(numpy_array[boolean_array])
Variable explorer
Name Type Size Value
employee1_name str 1 beri
my_index list 10 ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']
numpy_array int32 (10,) Min: 0 Max: 9
pi float 1 3.14
r int 1 5
result1 float 1 78.5
result2 float 1 314.0
s1 Series (5,) Series object of pandas.core.series module
Help
Variable explorer
IPython console
Console 1/A
8 8
9 9
dtype: int64
4 4
dtype: int64
0 0
1 1
2 2
3 3
4 4
5 5
dtype: int64
In [11]:
IPython console
History log
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 2
Column: 1
Memory: 64 %
Aramak için buraya yazın
14:50
14.05.2020

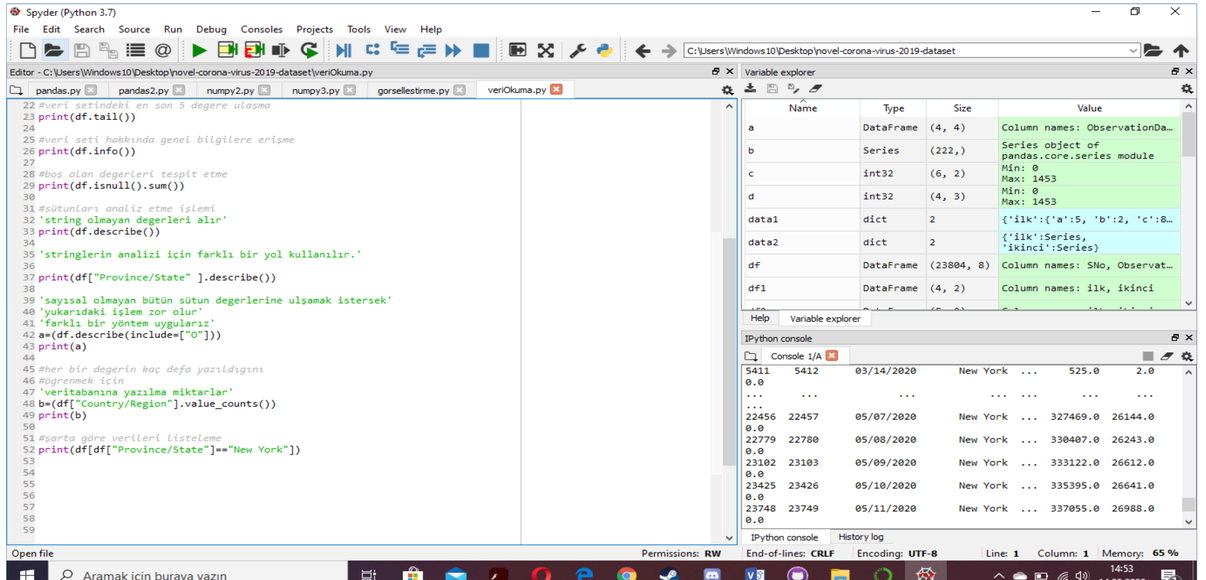

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\numpy3.py
pandas.py pandas2.py numpy2.py numpy3.py
# -*- coding: utf-8 -*-
import numpy as np
a=np.floor(np.random.random((3,4)))
print(a)
a=np.floor(10*np.random.random((3,4)))
print(a)
#oluşmuş olan diziyi tek satır içinde yazma
print(a.ravel())
print("------------")
print(a.reshape(6,2))
print("------------")
print(a.T)
#sıralama yapma
print(a.ravel(order="C"))
print(a.ravel(order="F"))
print(a.ravel(order="A"))
print(a.ravel(order="K"))
#numpy stack yapısı
a=np.floor(10*np.random.random((3,3)))
print(a)
b=np.floor(10*np.random.random((3,3)))
print(b)
#OLUŞMUŞ OLAN MATRİSSLERİ BİRARAYA GETİRME
print(np.stack((a,b)))
#yatay birleştirme
print(np.vstack((a,b)))
#dikey birleştirme
print(np.hstack((a,b)))
a=np.arange(12)
Variable explorer
Name Type Size Value
seriler Series (10,) Series object of pandas.core.series module
seriler2 Series (10,) Series object of pandas.core.series module
sonuc int 1 7
sözlük dict 4 {'a':0, 'b':1, 'c':2, 'd':3}
sözlük1 dict 4 {'a':5, 'b':2, 'c':8, 'd':7}
sözlük2 dict 4 {'a':1, 'b':3, 'c':5, 'd':8}
v1 int 1 5
v2 int 1 7
Help Variable explorer
IPython console
Console 1/A
(4, 3)
False
True
False
(4, 3)
[[0 1 2]
[3 4 5]
[6 7 8]
[1453 10 11]]
False
False
(4, 3)
In [12]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 37 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:51
14.05.2020

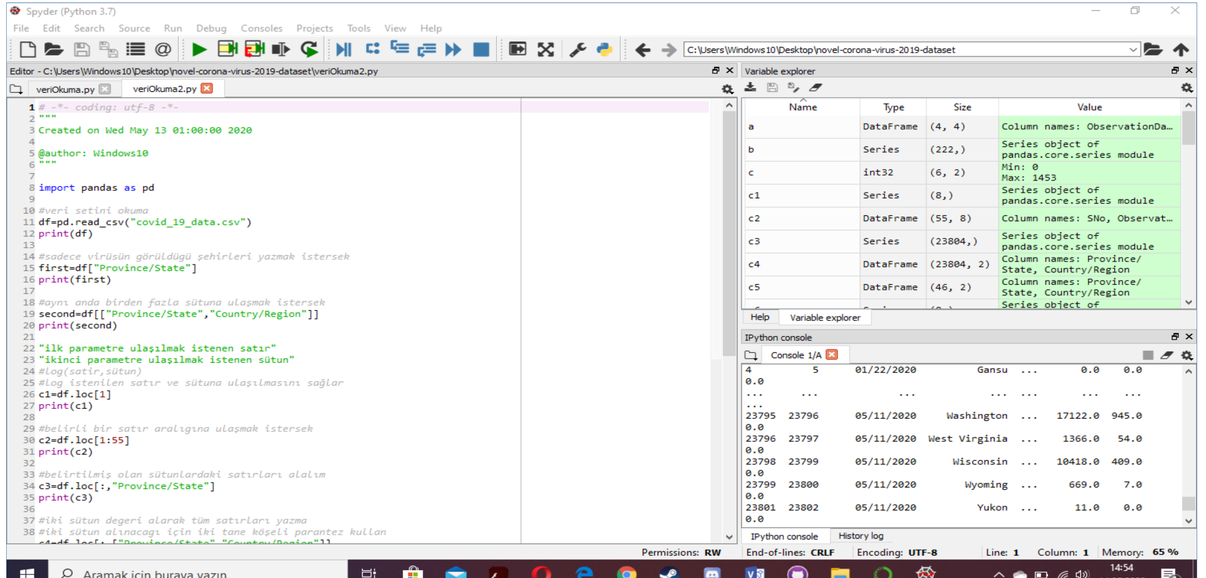

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\numpy3.py
pandas.py pandas2.py numpy2.py numpy3.py
37
38 a=np.arange(12)
39 b=a
40 print(b is a)
41 #b objesinde yapılan degisiklikler a objesinide etkiledi
42 b.shape=4,3
43 print(a.shape)
44
45 #farklı arrayler aynı dataya bakacak
46 #aynı verilere sahip olacak
47 c=a.view()
48 print(c is a) #atama işlemi yapılmadıgı için false döner
49 print(c.base is a) #aynı verileri barındırdıgı için true döner
50
51 #veriler cyemi ait onun kontrolü
52 print(c.flags.owndata)
53
54 #c objesinin satır ve sütun degerleri
55 #cdeki degisiklik a degerine uyarlanmamıştır.
56 c.shape=6,2
57 print(a.shape)
58
59 #cde yapılan degisiklik a degerine uyarlandı.
60 #aynı verileri taşıyorlar çünkü
61 c[4,1]=1453
62 print(a)
63
64 #adaki verileri kopyalayalım
65 #kopyalama oldugu için d degerinde yapılan
66 #degisiklikler a degerine geçmez.
67 d=a.copy()
68 print(d is a)
69 print(d.base is a)
70
71 #indeksleme
72 d[1,1]=571
73 print(a.shape)
74
Variable explorer
Name Type Size Value
seriler Series (10,) Series object of pandas.core.series module
seriler2 Series (10,) Series object of pandas.core.series module
sonuc int 1 7
sözlük dict 4 {'a':0, 'b':1, 'c':2, 'd':3}
sözlük1 dict 4 {'a':5, 'b':2, 'c':8, 'd':7}
sözlük2 dict 4 {'a':1, 'b':3, 'c':5, 'd':8}
v1 int 1 5
v2 int 1 7
Help Variable explorer
IPython console
Console 1/A
(4, 3)
False
True
False
(4, 3)
[[0 1 2]
[3 4 5]
[6 7 8]
[1453 10 11]]
False
False
(4, 3)
In [12]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 37 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:51
14.05.2020

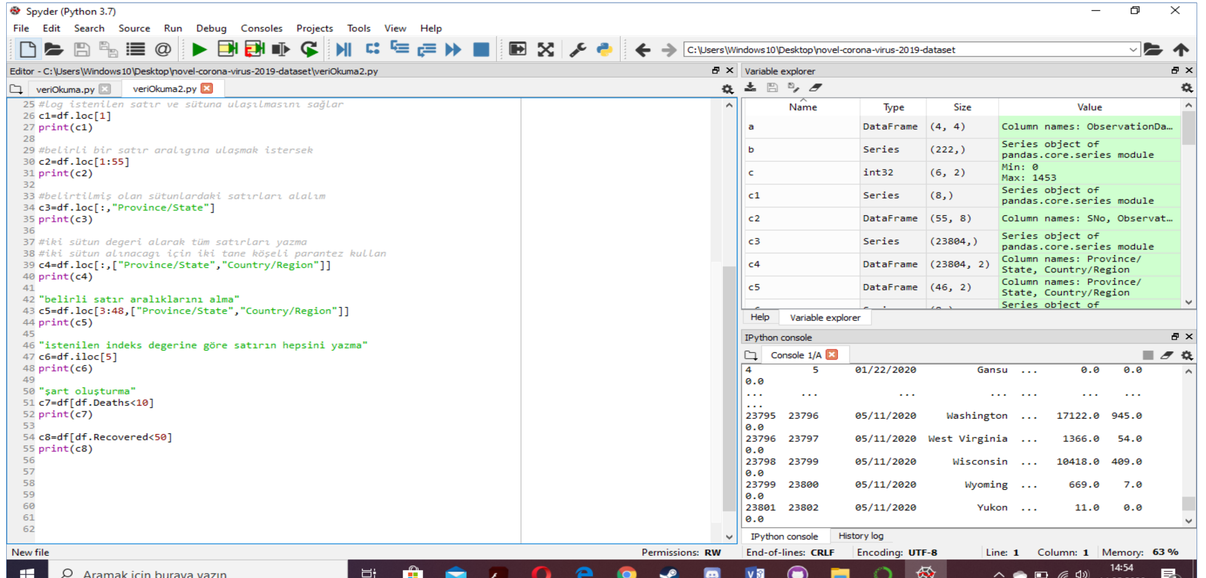

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\gorsellestirme.py
pandas.py pandas2.py numpy2.py numpy3.py gorsellestirme.py
@author: Windows10
"""
import numpy as np
python_list=[0,2,3,5,5,5]
#np kütüphanesinden dizi şeklinde array olacagı için gösterimi bu şekildedir.
numpy_array=np.array([1,3,3,4,5,6,7,7,8,9])
print(python_list)
print(numpy_array)
#boyutunu öğrenmek için yapılan işlem
print(numpy_array.ndim)
#2boyutlu dizi oluşturma
numpy_array2=np.array([[3,4,33,4,5,6,5]])
print(numpy_array2)
print(numpy_array2.ndim)
#boyutu göstermke için
print(numpy_array.shape)
print(numpy_array2.shape)
#boyut degerini degistirmek için
print(numpy_array.reshape(2,3))
#arange kullanımı (baslangıc,bitis,artıs)
print(np.arange(0,15,3))
print(np.arange(5))
#[satır.sutun]
numpy_array=numpy_array.reshape(5,2)
print(numpy_array)
print(numpy_array[0])
Variable explorer
Name Type Size Value
a int32 (4, 3) Min: 0 Max: 1453
b int32 (4, 3) Min: 0 Max: 1453
c int32 (6, 2) Min: 0 Max: 1453
d int32 (4, 3) Min: 0 Max: 1453
data1 dict 2 {'ilk':{'a':5, 'b':2, 'c':8, 'd…
data2 dict 2 {'ilk':Series, 'ikinci':Series}
df1 DataFrame (4, 2) Column names: ilk, ikinci
df2 DataFrame (5, 2) Column names: ilk, ikinci
Help Variable explorer
IPython console
Console 1/A
File "C:\Users\Windows10\Anaconda3\lib\site-packages\spyder_kernels\customize\spydercustomize.py", line 110, in execfile
exec(compile(f.read(), filename, 'exec'), namespace)
File "C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/gorsellestirme.py", line 30, in <module>
print(numpy_array.reshape(2,3))
ValueError: cannot reshape array of size 10 into shape (2,3)
In [13]:
In [13]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 31 Column: 1 Memory: 65 %
Aramak için buraya yazın
14:52
14.05.2020

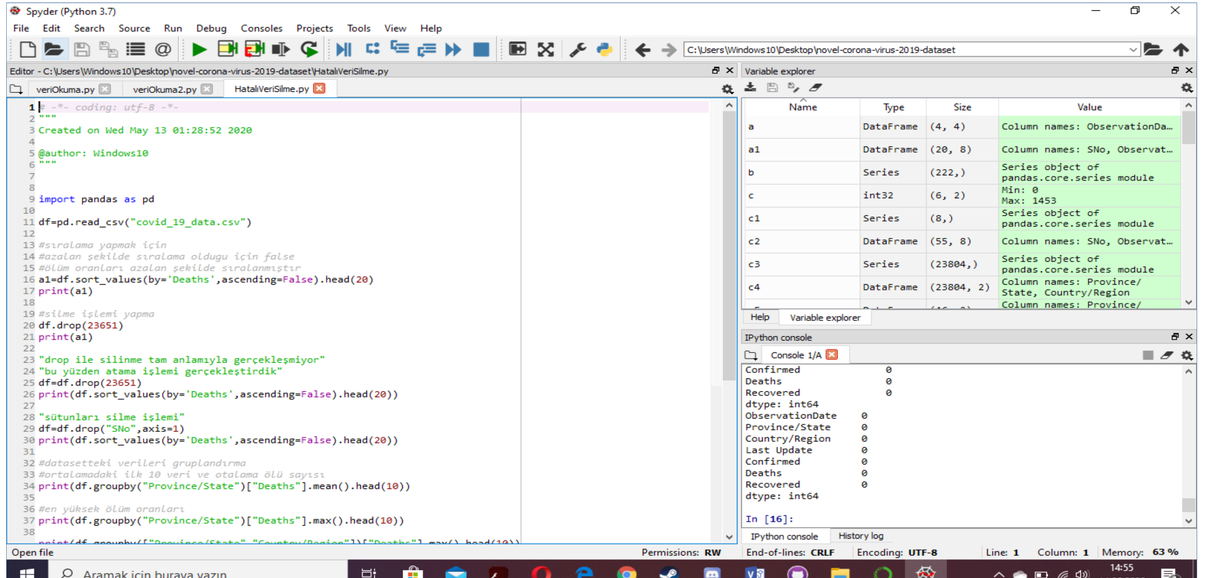

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\gorsellestirme.py
pandas.py pandas2.py numpy2.py numpy3.py gorsellestirme.py
34 print(np.arange(0,15,3))
35 print(np.arange(5))
36
37 #[satır.sutun]
38
39 numpy_array=numpy_array.reshape(5,2)
40 print(numpy_array)
41 print(numpy_array[0])
42 print(numpy_array[0:4])
43
44 print(numpy_array[:,0])
45
46 #diziyi tersten yazma
47 print(numpy_array[::-1])
48
49 #sıfır matris olşuturma
50 print(np.zeros((6,6)))
51
52 #birlerden oluşan matris için
53 print(np.ones((5,6,8)))
54
55 #birim matris oluşturma
56 #sütun sayısı belirtilmez satır sayısı belirtilir.
57 print(np.eye(6))
58
59 #dizilerde birleştirme işlemi için
60 #satır bazlı birleştirme
61 print(np.concatenate([numpy_array,numpy_array],axis=0))
62
63 #sütun bazlı birleştirme
64 print(np.concatenate([numpy_array,numpy_array],axis=1))
65
66
67
68
69
70
71
Variable explorer
Name Type Size Value
a int32 (4, 3) Min: 0 Max: 1453
b int32 (4, 3) Min: 0 Max: 1453
c int32 (6, 2) Min: 0 Max: 1453
d int32 (4, 3) Min: 0 Max: 1453
data1 dict 2 {'ilk':{'a':5, 'b':2, 'c':8, 'd…
data2 dict 2 {'ilk':Series, 'ikinci':Series}
df1 DataFrame (4, 2) Column names: ilk, ikinci
df2 DataFrame (5, 2) Column names: ilk, ikinci
Help Variable explorer
IPython console
Console 1/A
File "C:\Users\Windows10\Anaconda3\lib\site-packages\spyder_kernels\customize\spydercustomize.py", line 110, in execfile
exec(compile(f.read(), filename, 'exec'), namespace)
File "C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/gorsellestirme.py", line 30, in <module>
print(numpy_array.reshape(2,3))
ValueError: cannot reshape array of size 10 into shape (2,3)
In [13]:
In [13]:
IPython console History log
New file
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 31 Column: 1 Memory: 65 %
Aramak için buraya yazın
14:52
14.05.2020

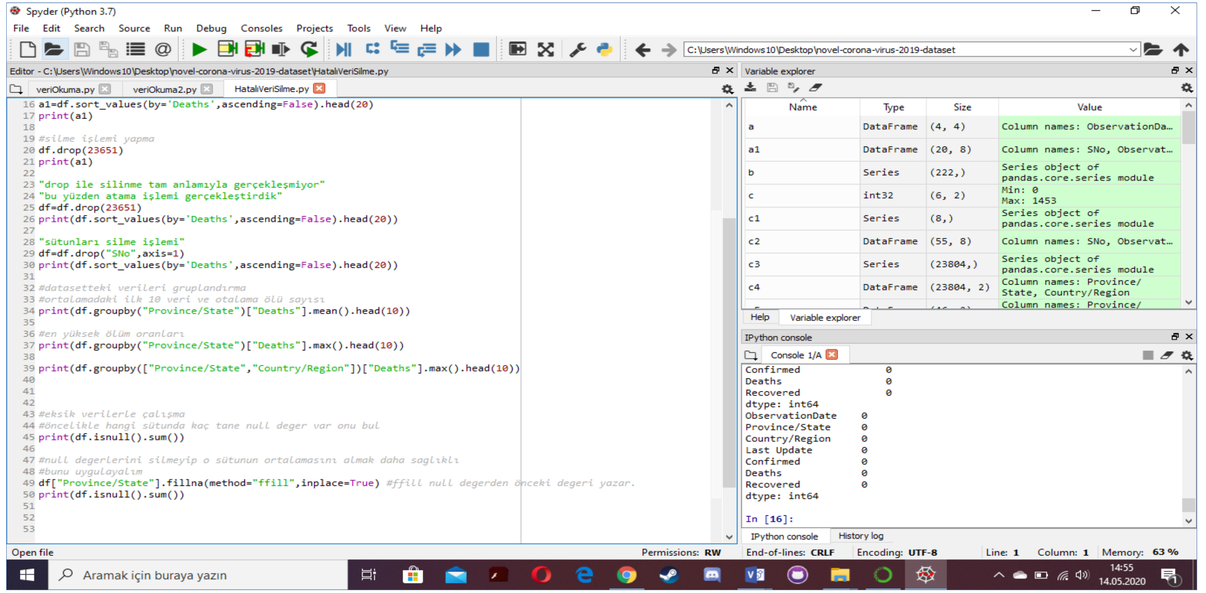

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\veriOkuma.py
pandas.py pandas2.py numpy2.py numpy3.py gorsellestirme.py veriOkuma.py
# -*- coding: utf-8 -*-
import pandas as pd
#dataseti okuma
df=pd.read_csv("covid_19_data.csv")
print(df)
#verilerin satır ve sutun sayısını ögrenme
print(df.shape)
#sutundaki degerleri ögrenme
print(df.columns)
#sütunların veri türlerini ögrenme
print(df.dtypes)
#varsayılan olarak ilk 5 satır yazdırma
print(df.head())
#diger kullanımı
print(df.head(10))#ilk 10 satırı yazar.
#veri setindeki en son 5 degere ulaşma
print(df.tail())
#veri seti hakkında genel bilgilere erişme
print(df.info())
#bos olan degerleri tespit etme
print(df.isnull().sum())
#sütunları analiz etme işlemi
'string olmayan degerleri alır'
print(df.describe())
'stringlerin analizi için farklı bir yol kullanılır.'
print(df["Province/State"].describe())
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
d int32 (4, 3) Min: 0 Max: 1453
data1 dict 2 {'ilk':{'a':5, 'b':2, 'c':8…
data2 dict 2 {'ilk':Series, 'ikinci':Series}
df DataFrame (23804, 8) Column names: SNo, Observat…
df1 DataFrame (4, 2) Column names: ilk, ikinci
Help Variable explorer
IPython console
Console 1/A
5411 5412 03/14/2020 New York ... 525.0 2.0 0.0
... ...
22456 22457 05/07/2020 New York ... 327469.0 26144.0 0.0
22779 22780 05/08/2020 New York ... 330407.0 26243.0 0.0
23102 23103 05/09/2020 New York ... 333122.0 26612.0 0.0
23425 23426 05/10/2020 New York ... 335395.0 26641.0 0.0
23748 23749 05/11/2020 New York ... 337055.0 26988.0 0.0
IPython console History log
Open file Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 1 Column: 1 Memory: 65 %
Aramak için buraya yazın
14:53 14.05.2020

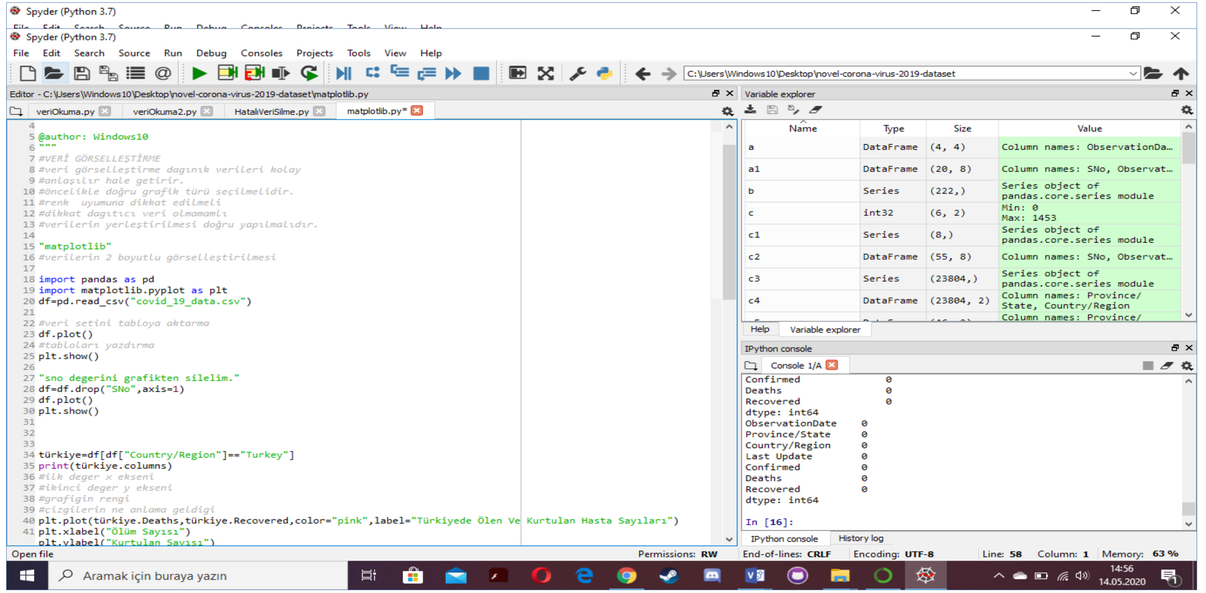

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\veriOkuma.py
pandas.py pandas2.py numpy2.py numpy3.py gorsellestirme.py veriOkuma.py
#veri setindeki en son 5 degere ulaşma
print(df.tail())
#veri seti hakkında genel bilgilere erişme
print(df.info())
#boş olan degerleri tespit etme
print(df.isnull().sum())
#sütunları analiz etme işlemi
'string olmayan degerleri alır'
print(df.describe())
'stringlerin analizi için farklı bir yol kullanılır.'
print(df["Province/State"].describe())
'sayısal olmayan bütün sütun degerlerine ulşamak istersek'
'yukarıdaki işlem zor olur'
'farklı bir yöntem uygularız'
a=(df.describe(include=["O"]))
print(a)
#her bir degerin kaç defa yazıldıgını
#öğrenmek için
'veritabanına yazılma miktarlar'
b=(df["Country/Region"].value_counts())
print(b)
#şarta göre verileri listeleme
print(df[df["Province/State"]=="New York"])
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
d int32 (4, 3) Min: 0 Max: 1453
data1 dict 2 {'ilk':{'a':5, 'b':2, 'c':8…
data2 dict 2 {'ilk':Series, 'ikinci':Series}
df DataFrame (23804, 8) Column names: SNo, Observat…
df1 DataFrame (4, 2) Column names: ilk, ikinci
Help Variable explorer
IPython console
Console 1/A
5411 5412 03/14/2020 New York ... 525.0 2.0 0.0
22456 22457 05/07/2020 New York ... 327469.0 26144.0 0.0
22779 22780 05/08/2020 New York ... 330407.0 26243.0 0.0
23102 23103 05/09/2020 New York ... 333122.0 26612.0 0.0
23425 23426 05/10/2020 New York ... 335395.0 26641.0 0.0
23748 23749 05/11/2020 New York ... 337055.0 26988.0 0.0
IPython console History log
Open file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 1
Column: 1
Memory: 65 %
Aramak için buraya yazın
14:53
14.05.2020

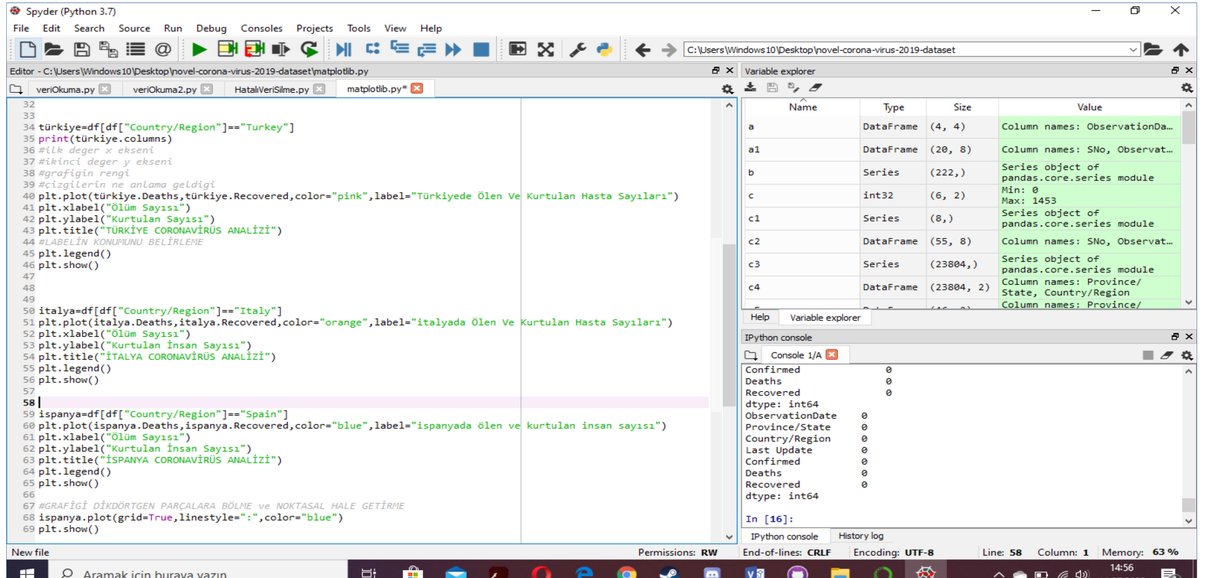

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\veriOkuma2.py
veriOkuma.py
veriOkuma2.py
-*- coding: utf-8 -*-
"""
Created on Wed May 13 01:00:00 2020
@author: Windows10
"""
import pandas as pd
#veri setini okuma
df=pd.read_csv("covid_19_data.csv")
print(df)
#sadece virüsün görüldüğü şehirleri yazmak istersek
first=df["Province/State"]
print(first)
#aynı anda birden fazla sütuna ulaşmak istersek
second=df[["Province/State","Country/Region"]]
print(second)
"ilk parametre ulaşılmak istenen satır"
"ikinci parametre ulaşılmak istenen sütun"
#loc(satir,sütun)
#loc istenilen satır ve sütuna ulaşılmasını sağlar
c1=df.loc[1]
print(c1)
#belirli bir satır aralığına ulaşmak istersek
c2=df.loc[1:55]
print(c2)
#belirtilmiş olan sütunlardaki satırları alalım
c3=df.loc[:,"Province/State"]
print(c3)
#iki sütun degeri alarak tüm satırları yazma
#iki sütun alınacagı için iki tane köşeli parantez kullan
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0
Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat…
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
c5 DataFrame (46, 2) Column names: Province/State, Country/Region
Help
Variable explorer
IPython console
Console 1/A
4 5 01/22/2020 Gansu ... 0.0 0.0
0.0
... ...
23795 23796 05/11/2020 Washington ... 17122.0 945.0
0.0
23796 23797 05/11/2020 West Virginia ... 1366.0 54.0
0.0
23798 23799 05/11/2020 Wisconsin ... 10418.0 409.0
0.0
23799 23800 05/11/2020 Wyoming ... 669.0 7.0
0.0
23801 23802 05/11/2020 Yukon ... 11.0 0.0
0.0
IPython console
History log
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 1
Column: 1
Memory: 65 %
Aramak için buraya yazın
14:54
14.05.2020

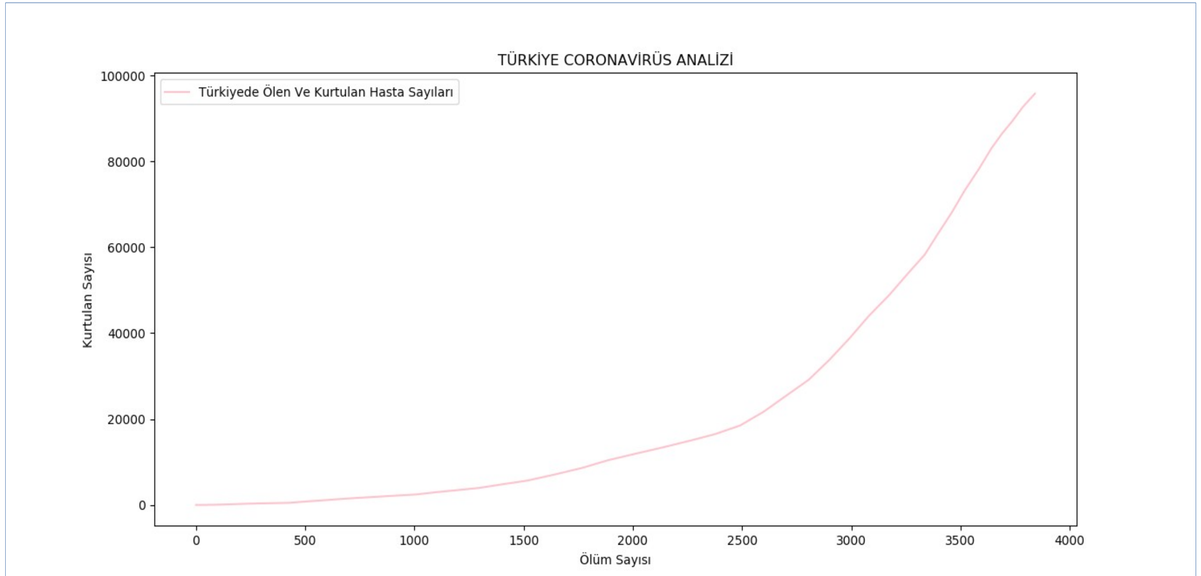

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\veriOkuma2.py
veriOkuma.py
veriOkuma2.py
#log istenilen satır ve sütuna ulaşılmasını sağlar
c1=df.loc[1]
print(c1)
#belirli bir satır aralığına ulaşmak istersek
c2=df.loc[1:55]
print(c2)
#belirtilmiş olan sütunlardaki satırları alalım
c3=df.loc[:,"Province/State"]
print(c3)
#iki sütun degeri alarak tüm satırları yazma
#iki sütun alınacagı için iki tane köseli parantez kullan
c4=df.loc[:,["Province/State","Country/Region"]]
print(c4)
"belirli satır aralıklarını alma"
c5=df.loc[3:48,["Province/State","Country/Region"]]
print(c5)
"istenilen indeks degerine göre satırın hepsini yazma"
c6=df.iloc[5]
print(c6)
"şart oluşturma"
c7=df[df.Deaths<10]
print(c7)
c8=df[df.Recovered<50]
print(c8)
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat…
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
c5 DataFrame (46, 2) Column names: Province/State, Country/Region
Help
Variable explorer
IPython console
Console 1/A
4 5 01/22/2020 Gansu ... 0.0 0.0 0.0
... ...
23795 23796 05/11/2020 Washington ... 17122.0 945.0 0.0
23796 23797 05/11/2020 West Virginia ... 1366.0 54.0 0.0
23798 23799 05/11/2020 Wisconsin ... 10418.0 409.0 0.0
23799 23800 05/11/2020 Wyoming ... 669.0 7.0 0.0
23801 23802 05/11/2020 Yukon ... 11.0 0.0 0.0
IPython console
History log
New file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 1
Column: 1
Memory: 63 %
Aramak için buraya yazın
14:54
14.05.2020

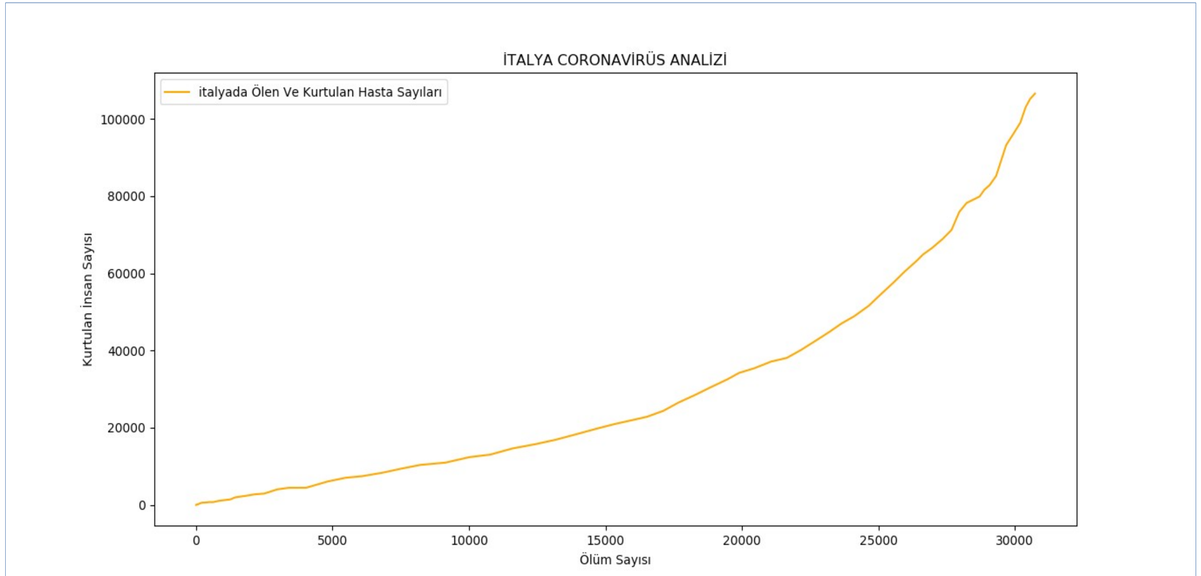

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\HataliVeriSilme.py
veriOkuma.py
veriOkuma2.py
HataliVeriSilme.py
-*- coding: utf-8 -*-
"""
Created on Wed May 13 01:28:52 2020
@author: Windows10
"""
import pandas as pd
df=pd.read_csv("covid_19_data.csv")
#sıralama yapmak için
#azalan şekilde sıralama oldugu için false
#ölüm oranları azalan şekilde sıralanmıştır
a1=df.sort_values(by='Deaths',ascending=False).head(20)
print(a1)
#silme işlemi yapma
df.drop(23651)
print(a1)
"drop ile silinme tam anlamıyla gerçekleşmiyor"
"bu yüzden atama işlemi gerceklestirdik"
df=df.drop(23651)
print(df.sort_values(by='Deaths',ascending=False).head(20))
"sütunları silme işlemi"
df=df.drop("SNo",axis=1)
print(df.sort_values(by='Deaths',ascending=False).head(20))
#datasetteki verileri gruplandırma
#ortalamadaki ilk 10 veri ve otalama ölü sayısı
print(df.groupby("Province/State")["Deaths"].mean().head(10))
#en yüksek ölüm oranları
print(df.groupby("Province/State")["Deaths"].max().head(10))
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help
Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
ObservationDate 0
Province/State 0
Country/Region 0
Last Update 0
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]:
IPython console
History log
Open file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 1
Column: 1
Memory: 63 %
Aramak için buraya yazın
14:55
14.05.2020

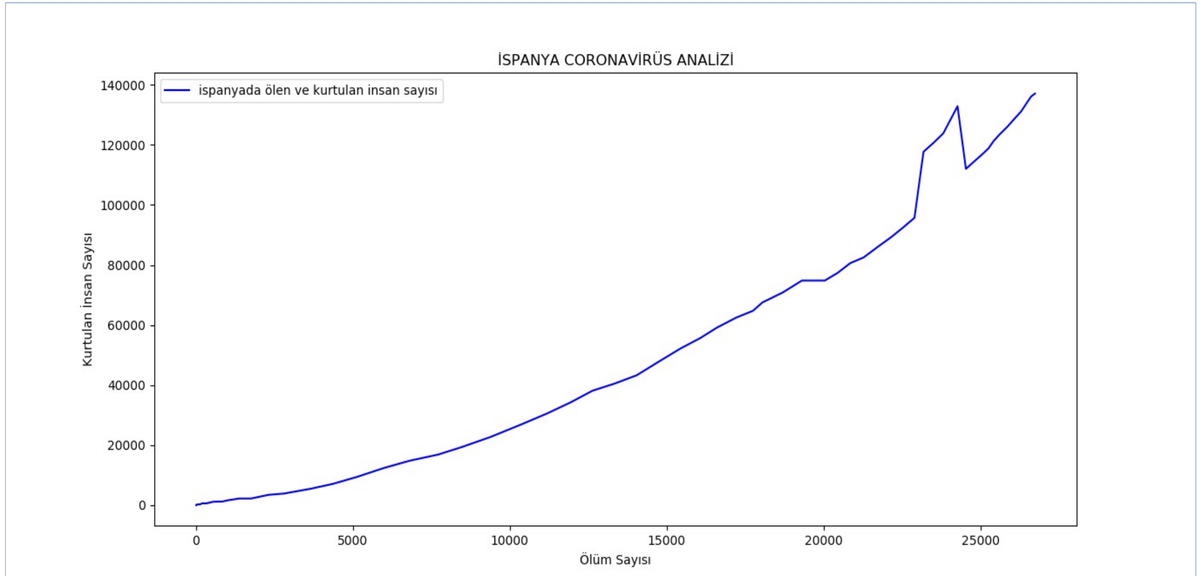

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\HataliVeriSilme.py
veriOkuma.py
veriOkuma2.py
HataliVeriSilme.py
a1=df.sort_values(by='Deaths',ascending=False).head(20)
print(a1)
#silme işlemi yapma
df.drop(23651)
print(a1)
"drop ile silinme tam anlamıyla gerçekleşmiyor"
"bu yüzden atama işlemi gerçekleştirdik"
df=df.drop(23651)
print(df.sort_values(by='Deaths',ascending=False).head(20))
"sütunları silme işlemi"
df=df.drop("SNo",axis=1)
print(df.sort_values(by='Deaths',ascending=False).head(20))
#datasetteki verileri gruplandırma
#ortalamadaki ilk 10 veri ve otalama ölü sayısı
print(df.groupby("Province/State")["Deaths"].mean().head(10))
#en yüksek ölüm oranları
print(df.groupby("Province/State")["Deaths"].max().head(10))
print(df.groupby(["Province/State","Country/Region"])["Deaths"].max().head(10))
#eksik verilerle çalışma
#öncelikle hangi sütunda kaç tane null deger var onu bul
print(df.isnull().sum())
#null degerlerini silmeyip o sütunun ortalamasını almak daha sağlıklı
#bunu uygulayalım
df["Province/State"].fillna(method="ffill",inplace=True) #ffill null degerden önceki degeri yazar.
print(df.isnull().sum())
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
ObservationDate 0
Province/State 0
Country/Region 0
Last Update 0
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]:
IPython console History log
Open file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 1
Column: 1
Memory: 63 %
Aramak için buraya yazın
14:55
14.05.2020

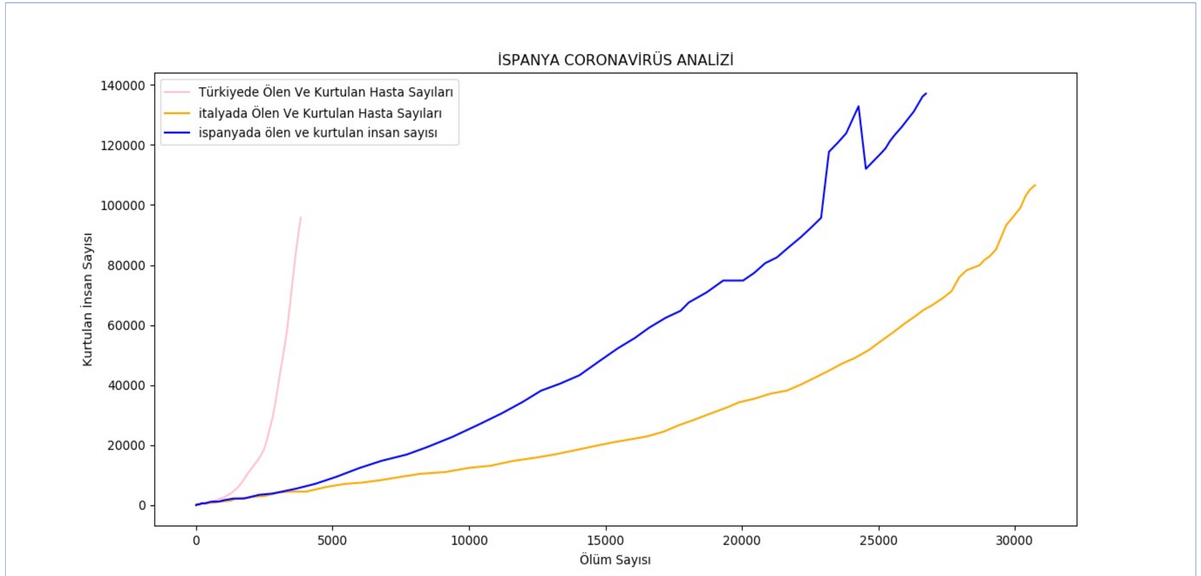

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\matplotlib.py
veriOkuma.py
veriOkuma2.py
HataliVeriSilme.py
matplotlib.py*
@author: Windows10
"""
#VERİ GÖRSELLEŞTİRME
#veri görselleştirme dagınık verileri kolay
#anlaşılır hale getirir.
#öncelikle doğru grafik türü seçilmelidir.
#renk uyumuna dikkat edilmeli
#dikkat dagıtıcı veri olmamamlı
#verilerin yerleştirilmesi doğru yapılmalıdır.
"matplotlib"
#verilerin 2 boyutlu görselleştirilmesi
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
#veri setini tabloya aktarma
df.plot()
#tabloları yazdırma
plt.show()
"sno degerini grafikten silelim."
df=df.drop("SNo",axis=1)
df.plot()
plt.show()
türkiye=df[df["Country/Region"]=="Turkey"]
print(türkiye.columns)
#ilk deger x ekseni
#ikinci deger y ekseni
#grafigin rengi
#cizgilerin ne anlama geldigi
plt.plot(türkiye.Deaths,türkiye.Recovered,color="pink",label="Türkiyede Ölen Ve Kurtulan Hasta Sayıları")
plt.xlabel("Ölüm Sayısı")
plt.ylabel("Kurtulan Sayısı")
Open file
Permissions: RW
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
a1 DataFrame (20, 8) Column names: SNo, Observat…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat…
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help
Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
ObservationDate 0
Province/State 0
Country/Region 0
Last Update 0
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]:
IPython console
History log
End-of-lines: CRLF
Encoding: UTF-8
Line: 58
Column: 1
Memory: 63 %
Aramak için buraya yazın
14:56
14.05.2020

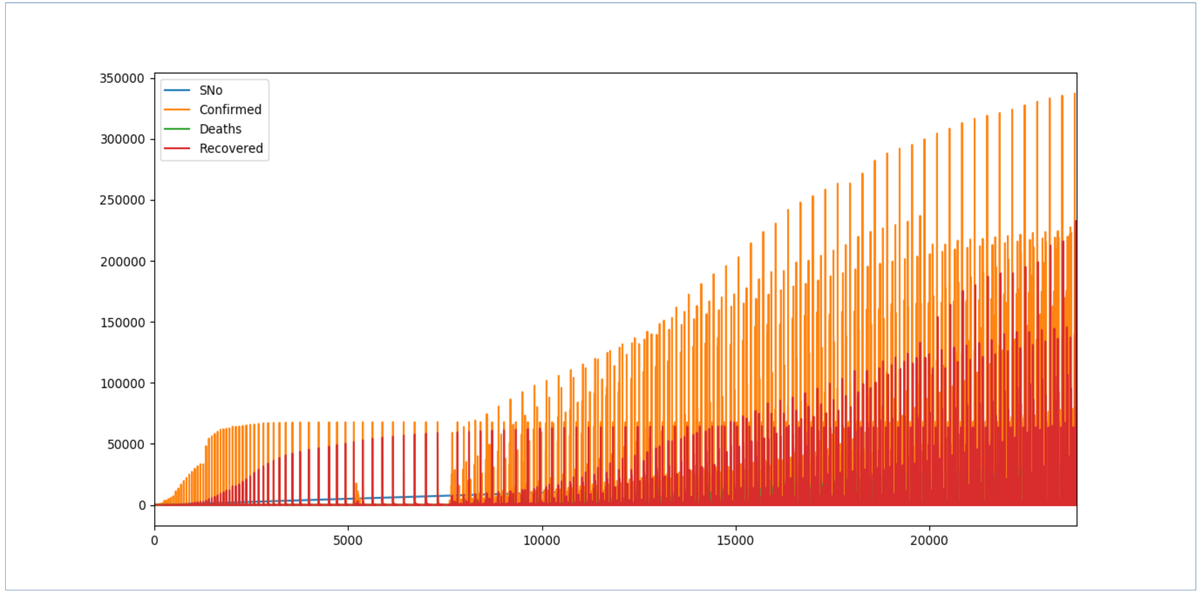

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\matplotlib.py
veriOkuma.py veriOkuma2.py HataliVeriSilme.py matplotlib.py*
32
33
34 türkiye=df[df["Country/Region"]=="Turkey"]
35 print(türkiye.columns)
36 #ilk deger x ekseni
37 #ikinci deger y ekseni
38 #grafigin rengi
39 #cizgilerin ne anlama geldigi
40 plt.plot(türkiye.Deaths,türkiye.Recovered,color="pink",label="Türkiyede Ölen Ve Kurtulan Hasta Sayıları")
41 plt.xlabel("Ölüm Sayısı")
42 plt.ylabel("Kurtulan Sayısı")
43 plt.title("TÜRKİYE CORONAVİRÜS ANALİZİ")
44 #LABELİN KONUMUNU BELİRLEME
45 plt.legend()
46 plt.show()
47
48
49
50 italya=df[df["Country/Region"]=="Italy"]
51 plt.plot(italya.Deaths,italya.Recovered,color="orange",label="İtalyada Ölen Ve Kurtulan Hasta Sayıları")
52 plt.xlabel("Ölüm Sayısı")
53 plt.ylabel("Kurtulan İnsan Sayısı")
54 plt.title("İTALYA CORONAVİRÜS ANALİZİ")
55 plt.legend()
56 plt.show()
57
58
59 ispanya=df[df["Country/Region"]=="Spain"]
60 plt.plot(ispanya.Deaths,ispanya.Recovered,color="blue",label="ispanyada ölen ve kurtulan insan sayısı")
61 plt.xlabel("Ölüm Sayısı")
62 plt.ylabel("Kurtulan İnsan Sayısı")
63 plt.title("İSPANYA CORONAVİRÜS ANALİZİ")
64 plt.legend()
65 plt.show()
66
67 #GRAFİĞİ DİKDÖRTGEN PARÇALARA BÖLME ve NOKTASAL HALE GETİRME
68 ispanya.plot(grid=True,linestyle=":",color="blue")
69 plt.show()
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
ObservationDate 0
Province/State 0
Country/Region 0
Last Update 0
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]:
IPython console History log
New file
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 58 Column: 1 Memory: 63 %
Aramak için buraya yazın
14:56
14.05.2020

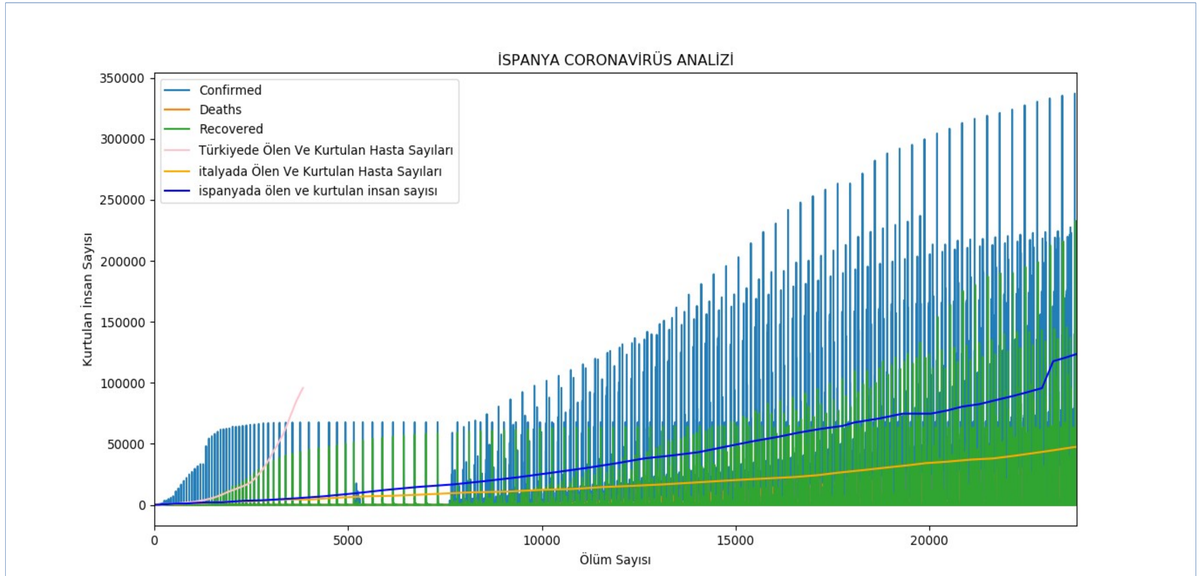

TÜRKİYE CORONAVİRÜS ANALİZİ
Türkiyede Ölen Ve Kurtulan Hasta Sayıları
Kurtulan Sayısı
Ölüm Sayısı
0
20000
40000
60000
80000
100000
0
500
1000
1500
2000
2500
3000
3500
4000

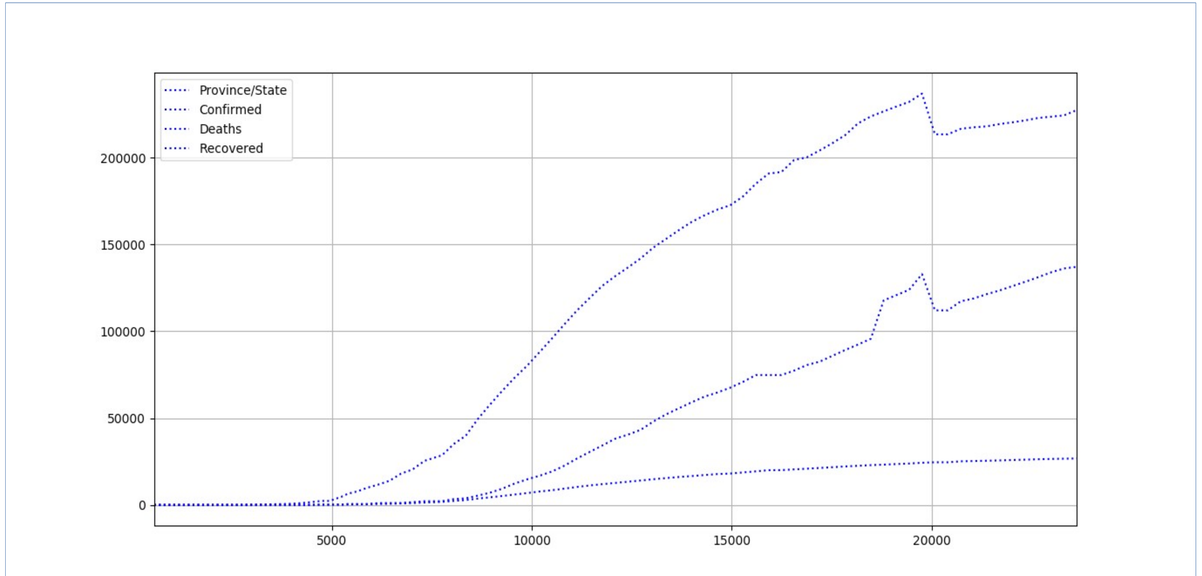

İTALYA CORONAVİRÜS ANALİZİ
italyada Ölen Ve Kurtulan Hasta Sayıları
Kurtulan İnsan Sayısı
Ölüm Sayısı
0
20000
40000
60000
80000
100000
0
5000
10000
15000
20000
25000
30000

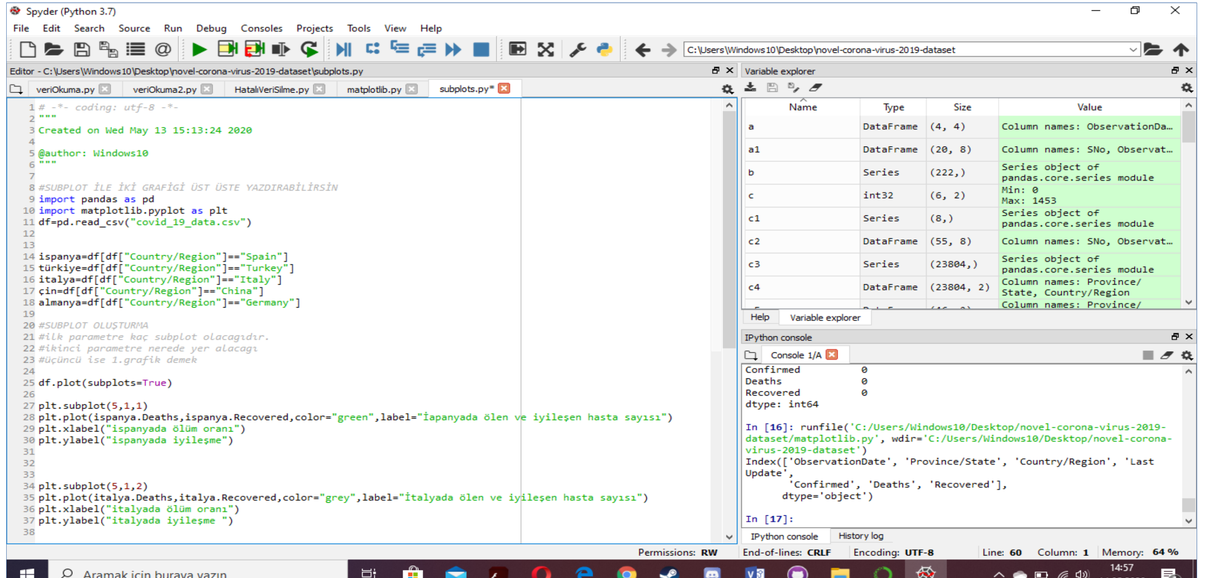

İSPANYA CORONAVİRÜS ANALİZİ
ispanyada ölen ve kurtulan insan sayısı
Kurtulan İnsan Sayısı
Ölüm Sayısı
0
20000
40000
60000
80000
100000
120000
140000
0
5000
10000
15000
20000
25000

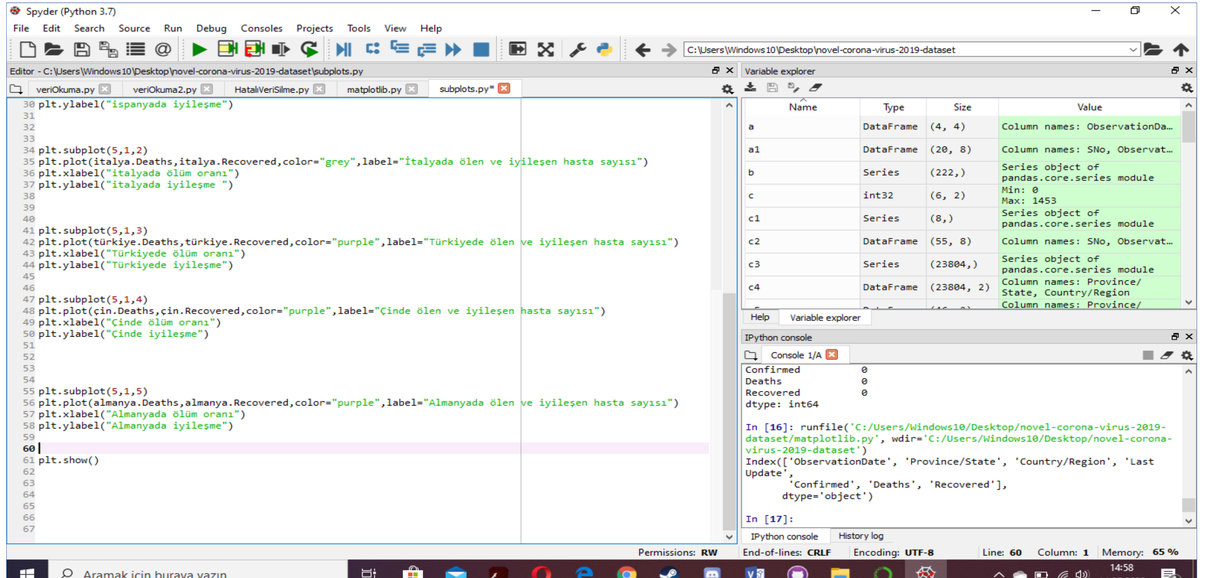

İSPANYA CORONAVİRÜS ANALİZİ
Türkiyede Ölen Ve Kurtulan Hasta Sayıları
italyada Ölen Ve Kurtulan Hasta Sayıları
ispanyada ölen ve kurtulan insan sayısı
Kurtulan İnsan Sayısı
Ölüm Sayısı
0
20000
40000
60000
80000
100000
120000
140000
0
5000
10000
15000
20000
25000
30000

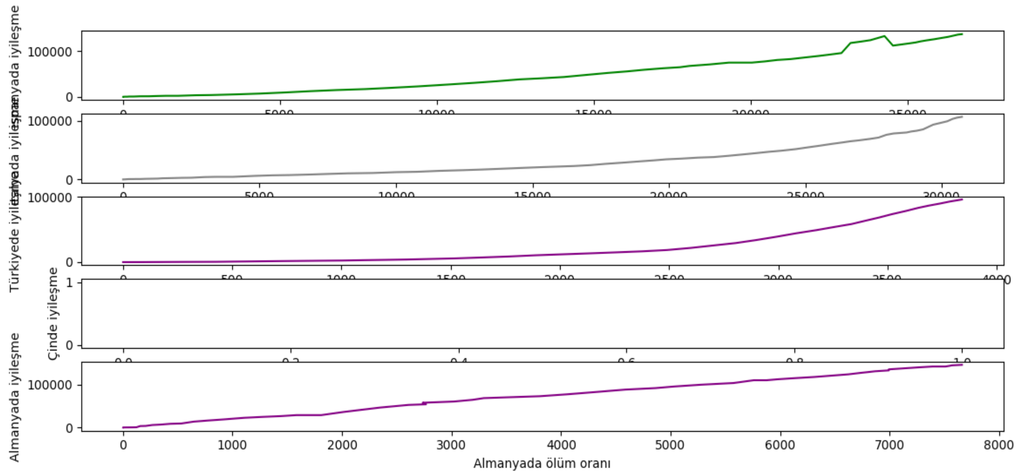

SNo
Confirmed
Deaths
Recovered
350000
300000
250000
200000
150000
100000
50000
0
0
5000
10000
15000
20000

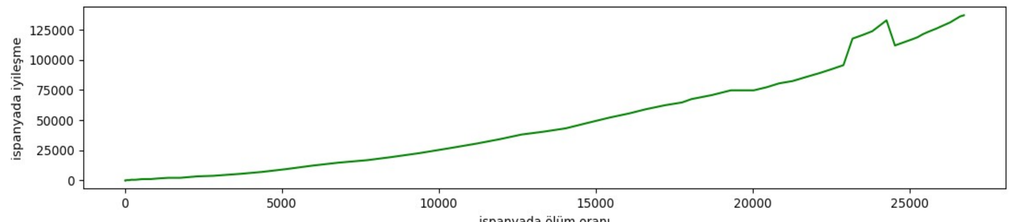

İSPANYA CORONAVİRÜS ANALİZİ
Confirmed
Deaths
Recovered
Türkiyede Ölen Ve Kurtulan Hasta Sayıları
italyada Ölen Ve Kurtulan Hasta Sayıları
ispanyada ölen ve kurtulan insan sayısı
Kurtulan İnsan Sayısı
Ölüm Sayısı
0
50000
100000
150000
200000
250000
300000
350000
0
5000
10000
15000
20000

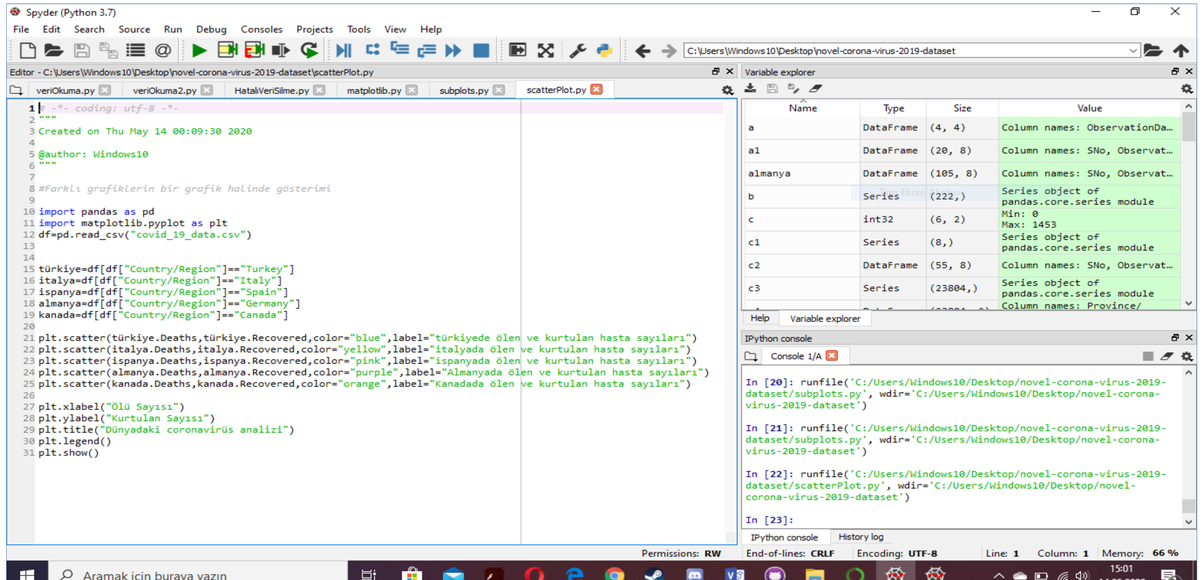

Province/State
Confirmed
Deaths
Recovered
200000
150000
100000
50000
0
5000
10000
15000
20000

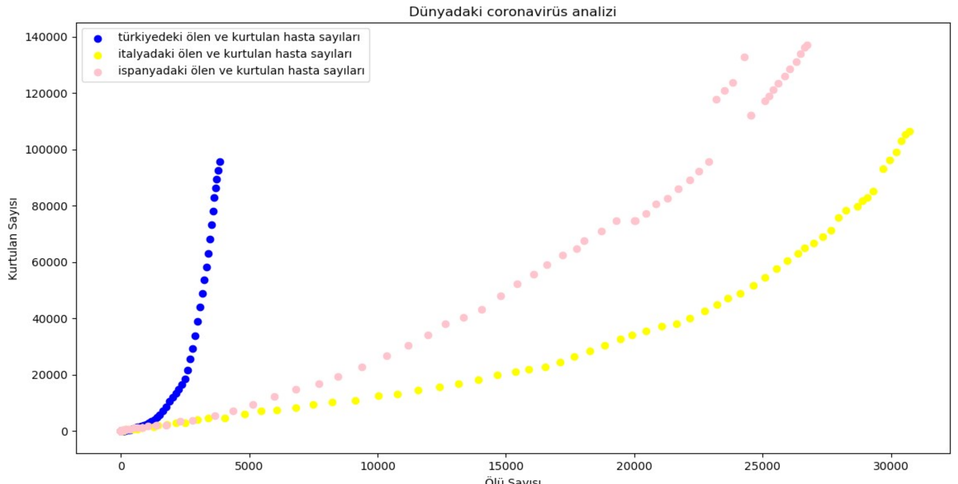

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\subplots.py
veriOkuma.py veriOkuma2.py HataliVeriSilme.py matplotlib.py subplots.py*
-*- coding: utf-8 -*-
"""
Created on Wed May 13 15:13:24 2020
@author: Windows10
"""
#SUBPLOT İLE İKİ GRAFİĞİ ÜST ÜSTE YAZDIRABİLİRSİN
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
ispanya=df[df["Country/Region"]=="Spain"]
türkiye=df[df["Country/Region"]=="Turkey"]
italya=df[df["Country/Region"]=="Italy"]
cin=df[df["Country/Region"]=="China"]
almanya=df[df["Country/Region"]=="Germany"]
#SUBPLOT OLUŞTURMA
#ilk parametre kaç subplot olacagıdır.
#ikinci parametre nerede yer alacagı
#üçüncü ise 1.grafik demek
df.plot(subplots=True)
plt.subplot(5,1,1)
plt.plot(ispanya.Deaths,ispanya.Recovered,color="green",label="İspanyada ölen ve iyileşen hasta sayısı")
plt.xlabel("İspanyada ölüm oranı")
plt.ylabel("ispanyada iyileşme")
plt.subplot(5,1,2)
plt.plot(italya.Deaths,italya.Recovered,color="grey",label="İtalyada ölen ve iyileşen hasta sayısı")
plt.xlabel("italyada ölüm oranı")
plt.ylabel("italyada iyileşme ")
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa…
a1 DataFrame (20, 8) Column names: SNo, Observat…
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat…
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/matplotlib.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
Index(['ObservationDate', 'Province/State', 'Country/Region', 'Last Update',
'Confirmed', 'Deaths', 'Recovered'],
dtype='object')
In [17]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 60 Column: 1 Memory: 64 %
Aramak için buraya yazın
14:57
14.05.2020

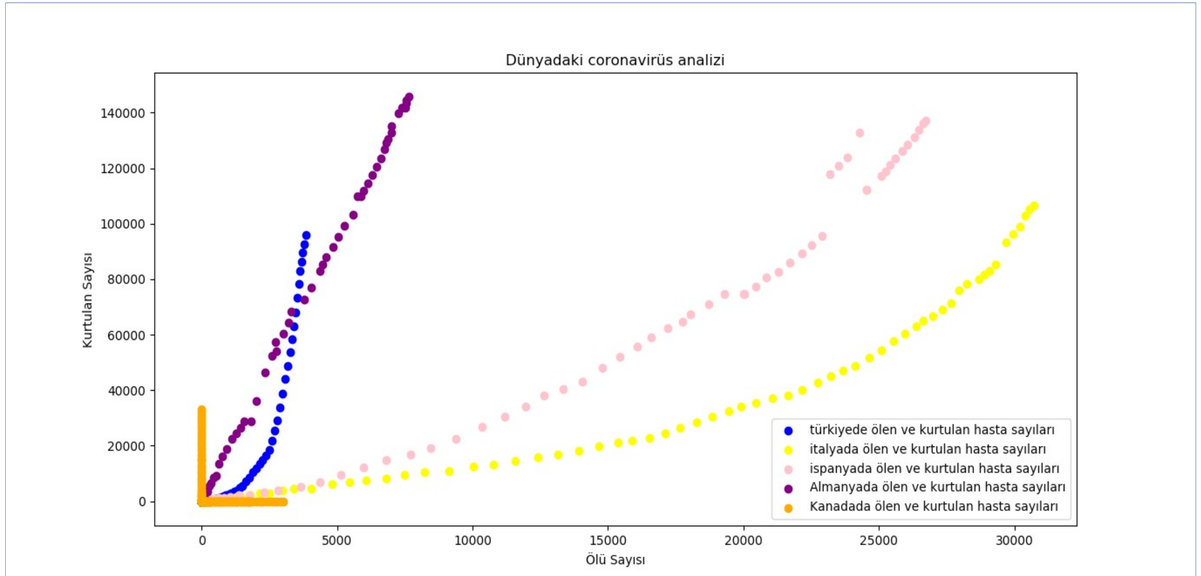

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\subplots.py
veriOkuma.py veriOkuma2.py HataliVeriSilme.py matplotlib.py subplots.py*
30 plt.ylabel("ispanyada iyileşme")
31
32
33
34 plt.subplot(5,1,2)
35 plt.plot(italya.Deaths,italya.Recovered,color="grey",label="İtalyada ölen ve iyileşen hasta sayısı")
36 plt.xlabel("italyada ölüm oranı")
37 plt.ylabel("italyada iyileşme ")
38
39
40
41 plt.subplot(5,1,3)
42 plt.plot(türkiye.Deaths,türkiye.Recovered,color="purple",label="Türkiyede ölen ve iyileşen hasta sayısı")
43 plt.xlabel("Türkiyede ölüm oranı")
44 plt.ylabel("Türkiyede iyileşme")
45
46
47 plt.subplot(5,1,4)
48 plt.plot(çin.Deaths,çin.Recovered,color="purple",label="Çinde ölen ve iyileşen hasta sayısı")
49 plt.xlabel("Çinde ölüm oranı")
50 plt.ylabel("Çinde iyileşme")
51
52
53
54
55 plt.subplot(5,1,5)
56 plt.plot(almanya.Deaths,almanya.Recovered,color="purple",label="Almanyada ölen ve iyileşen hasta sayısı")
57 plt.xlabel("Almanyada ölüm oranı")
58 plt.ylabel("Almanyada iyileşme")
59
60
61 plt.show()
62
63
64
65
66
67
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
c4 DataFrame (23804, 2) Column names: Province/State, Country/Region
Help Variable explorer
IPython console
Console 1/A
Confirmed 0
Deaths 0
Recovered 0
dtype: int64
In [16]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/matplotlib.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
Index(['ObservationDate', 'Province/State', 'Country/Region', 'Last Update',
'Confirmed', 'Deaths', 'Recovered'],
dtype='object')
In [17]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 60 Column: 1 Memory: 65 %
Aramak için buraya yazın
14:58
14.05.2020

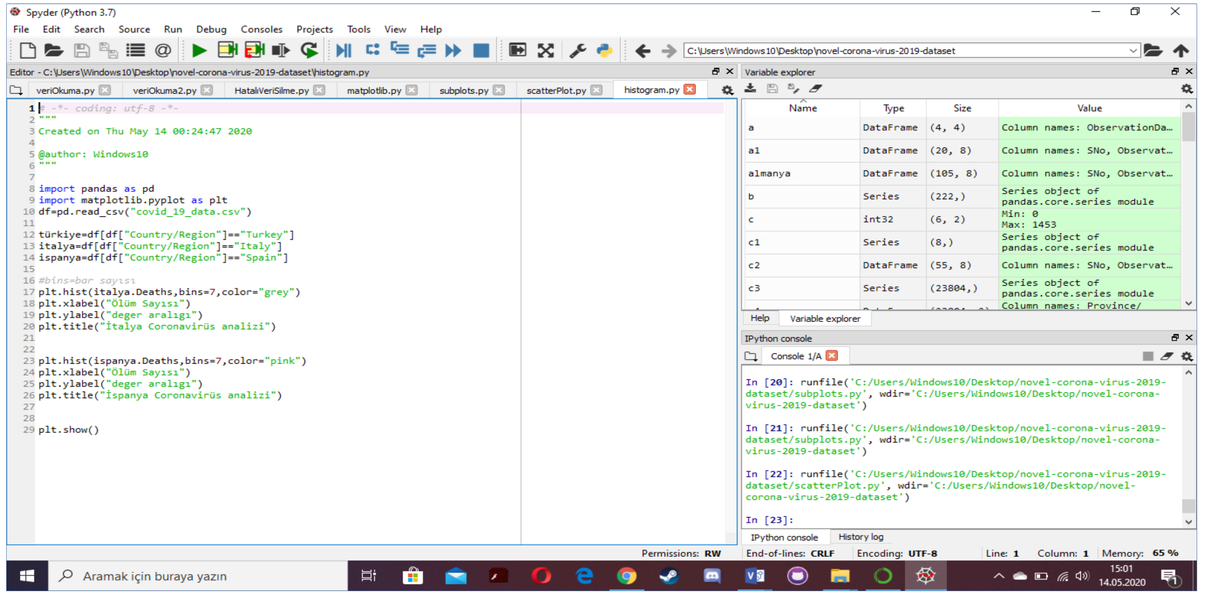

İspanyada iyileşme
100000
0
İtalyada iyileşme
100000
0
Türkiyede iyileşme
100000
0
Çinde iyileşme
1
0
Almanyada iyileşme
100000
0
0
1000
2000
3000
4000
5000
6000
7000
8000
Almanyada ölüm oranı

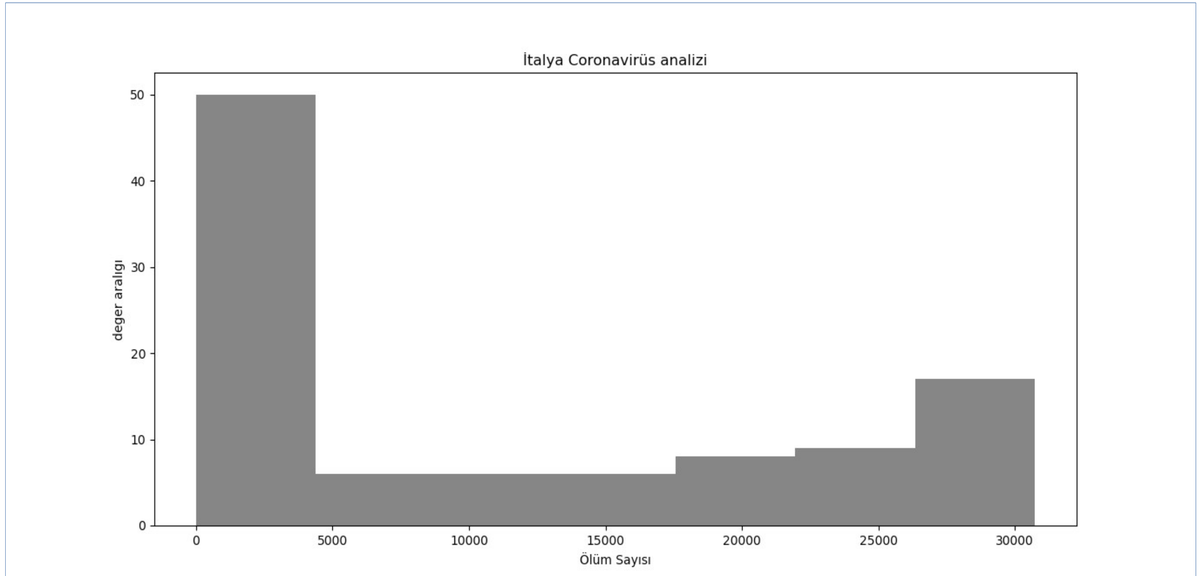

ispanyada iyileşme
125000
100000
75000
50000
25000
0
0
5000
10000
15000
20000
25000
ispanyada ölüm oranı
italyada iyileşme
100000
80000
60000
40000
20000
0
0
5000
10000
15000
20000
25000
30000
italyada ölüm oranı

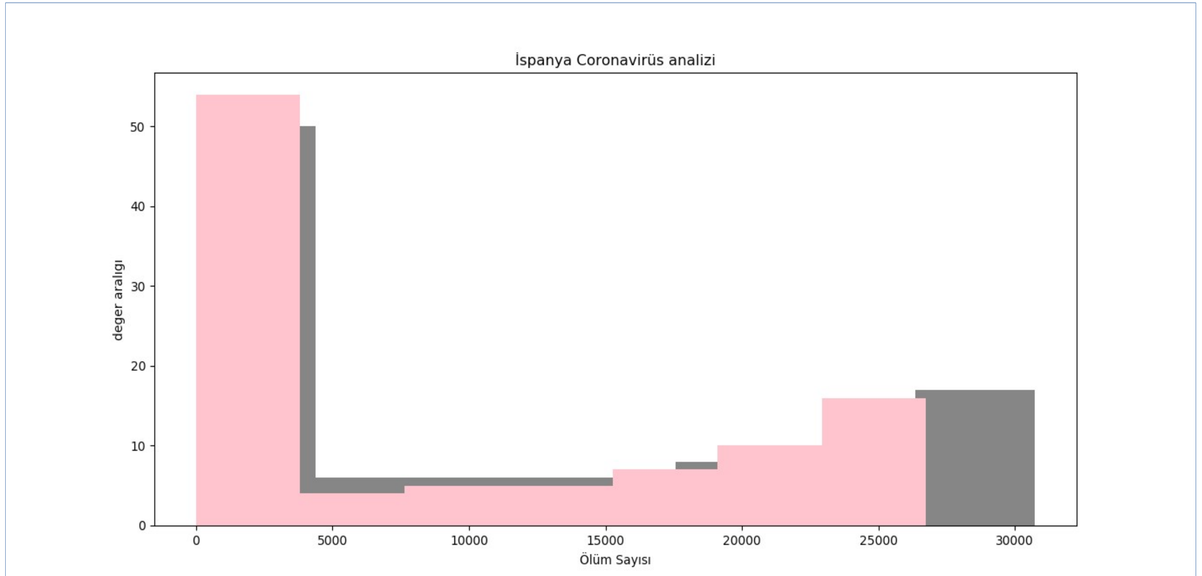

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\scatterPlot.py
veriOkuma.py veriOkuma2.py HataliVeriSilme.py matplotlib.py subplots.py scatterPlot.py
-*- coding: utf-8 -*-
"""
Created on Thu May 14 00:09:30 2020
@author: Windows10
"""
#Farklı grafiklerin bir grafik halinde gösterimi
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
türkiye=df[df["Country/Region"]=="Turkey"]
italya=df[df["Country/Region"]=="Italy"]
ispanya=df[df["Country/Region"]=="Spain"]
almanya=df[df["Country/Region"]=="Germany"]
kanada=df[df["Country/Region"]=="Canada"]
plt.scatter(türkiye.Deaths,türkiye.Recovered,color="blue",label="türkiyede ölen ve kurtulan hasta sayıları")
plt.scatter(italya.Deaths,italya.Recovered,color="yellow",label="italyada ölen ve kurtulan hasta sayıları")
plt.scatter(ispanya.Deaths,ispanya.Recovered,color="pink",label="ispanyada ölen ve kurtulan hasta sayıları")
plt.scatter(almanya.Deaths,almanya.Recovered,color="purple",label="Almanyada ölen ve kurtulan hasta sayıları")
plt.scatter(kanada.Deaths,kanada.Recovered,color="orange",label="Kanadada ölen ve kurtulan hasta sayıları")
plt.xlabel("Ölü Sayısı")
plt.ylabel("Kurtulan Sayısı")
plt.title("Dünyadaki coronavirüs analizi")
plt.legend()
plt.show()
Permissions: RW
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
almanya DataFrame (105, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
Help Variable explorer
IPython console
Console 1/A
In [20]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [21]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [22]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/scatterPlot.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [23]:
IPython console History log
End-of-lines: CRLF Encoding: UTF-8 Line: 1 Column: 1 Memory: 66 %
Aramak için buraya yazın
15:01
14.05.2020

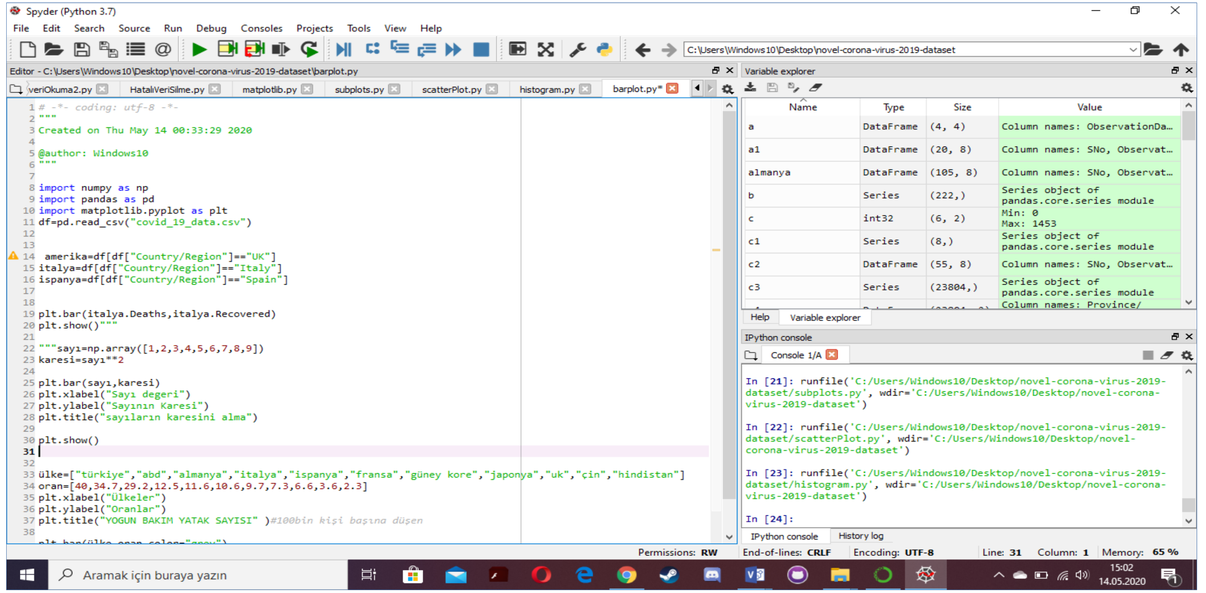

Dünyadaki coronavirüs analizi
türkiyedeki ölen ve kurtulan hasta sayıları
italyadaki ölen ve kurtulan hasta sayıları
ispanyadaki ölen ve kurtulan hasta sayıları
Kurtulan Sayısı
Ölü Sayısı
0
20000
40000
60000
80000
100000
120000
140000
0
5000
10000
15000
20000
25000
30000

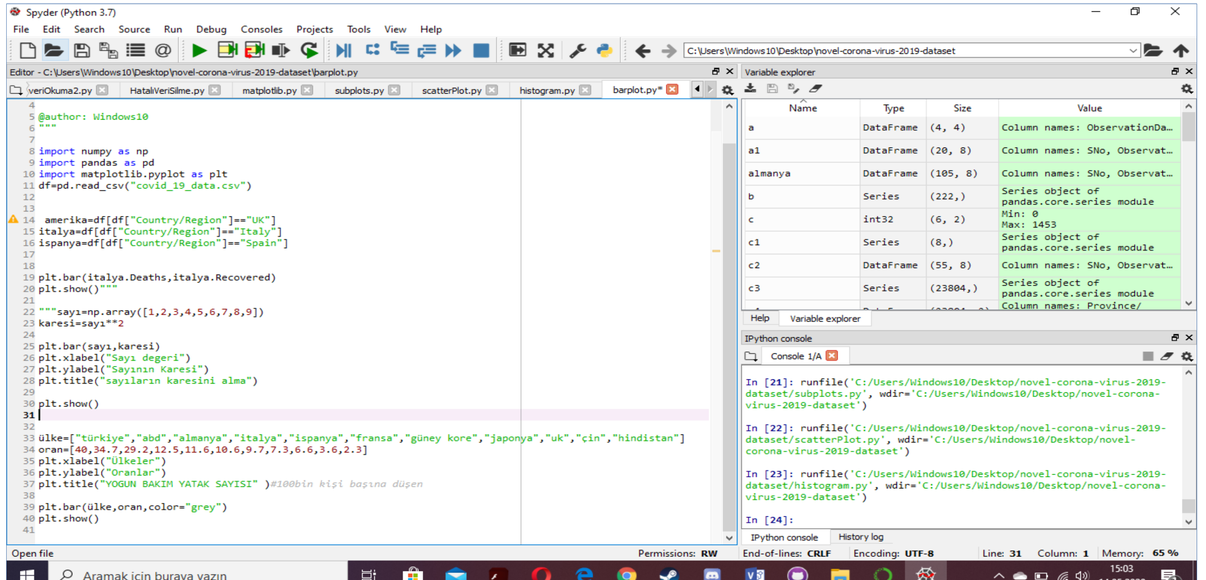

Dünyadaki coronavirüs analizi
Kurtulan Sayısı
Ölü Sayısı
0
20000
40000
60000
80000
100000
120000
140000
0
5000
10000
15000
20000
25000
30000
türkiyede ölen ve kurtulan hasta sayıları
italyada ölen ve kurtulan hasta sayıları
ispanyada ölen ve kurtulan hasta sayıları
Almanyada ölen ve kurtulan hasta sayıları
Kanadada ölen ve kurtulan hasta sayıları

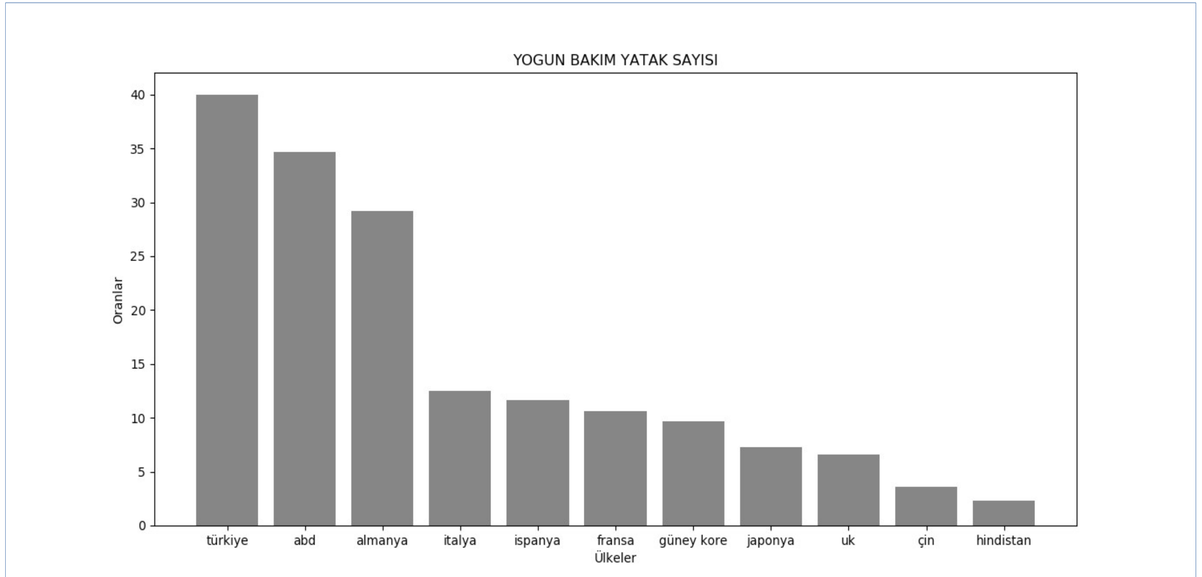

Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\histogram.py
veriOkuma.py veriOkuma2.py HataliVeriSilme.py matplotlib.py subplots.py scatterPlot.py histogram.py
-*- coding: utf-8 -*-
"""
Created on Thu May 14 00:24:47 2020
@author: Windows10
"""
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
türkiye=df[df["Country/Region"]=="Turkey"]
italya=df[df["Country/Region"]=="Italy"]
ispanya=df[df["Country/Region"]=="Spain"]
#bins=bar sayısı
plt.hist(italya.Deaths,bins=7,color="grey")
plt.xlabel("Ölüm Sayısı")
plt.ylabel("deger aralığı")
plt.title("İtalya Coronavirüs analizi")
plt.hist(ispanya.Deaths,bins=7,color="pink")
plt.xlabel("Ölüm Sayısı")
plt.ylabel("deger aralığı")
plt.title("İspanya Coronavirüs analizi")
plt.show()
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
almanya DataFrame (105, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
Help Variable explorer
IPython console
Console 1/A
In [20]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [21]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [22]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/scatterPlot.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [23]:
IPython console History log
Permissions: RW End-of-lines: CRLF Encoding: UTF-8 Line: 1 Column: 1 Memory: 65 %
Aramak için buraya yazın
15:01
14.05.2020


İtalya Coronavirüs analizi
deger aralıgı
Ölüm Sayısı
0
10
20
30
40
50
0
5000
10000
15000
20000
25000
30000


İspanya Coronavirüs analizi
deger aralıgı
Ölüm Sayısı
0
10
20
30
40
50
0
5000
10000
15000
20000
25000
30000


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\barplot.py
veriOkuma2.py
HatalıVeriSilme.py
matplotlib.py
subplots.py
scatterPlot.py
histogram.py
barplot.py*
-*- coding: utf-8 -*-
"""
Created on Thu May 14 00:33:29 2020
@author: Windows10
"""
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
amerika=df[df["Country/Region"]=="UK"]
italya=df[df["Country/Region"]=="Italy"]
ispanya=df[df["Country/Region"]=="Spain"]
plt.bar(italya.Deaths,italya.Recovered)
plt.show()"""
"""sayı=np.array([1,2,3,4,5,6,7,8,9])
karesi=sayı**2
plt.bar(sayı,karesi)
plt.xlabel("Sayı degeri")
plt.ylabel("Sayının Karesi")
plt.title("sayıların karesini alma")
plt.show()
ülke=["türkiye","abd","almanya","italya","ispanya","fransa","güney kore","japonya","uk","çin","hindistan"]
oran=[40,34.7,29.2,12.5,11.6,10.6,9.7,7.3,6.6,3.6,2.3]
plt.xlabel("Ulkeler")
plt.ylabel("Oranlar")
plt.title("YOGUN BAKIM YATAK SAYISI")#100bin kişi başına düşen
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
almanya DataFrame (105, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
Help
Variable explorer
IPython console
Console 1/A
In [21]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [22]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/scatterPlot.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [23]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/histogram.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [24]:
IPython console
History log
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 31
Column: 1
Memory: 65 %
Aramak için buraya yazın
15:02
14.05.2020


Spyder (Python 3.7)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset
Editor - C:\Users\Windows10\Desktop\novel-corona-virus-2019-dataset\barplot.py
veriOkuma2.py
HataliVeriSilme.py
matplotlib.py
subplots.py
scatterPlot.py
histogram.py
barplot.py*
@author: Windows10
"""
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("covid_19_data.csv")
amerika=df[df["Country/Region"]=="UK"]
italya=df[df["Country/Region"]=="Italy"]
ispanya=df[df["Country/Region"]=="Spain"]
plt.bar(italya.Deaths,italya.Recovered)
plt.show()"""
"""sayı=np.array([1,2,3,4,5,6,7,8,9])
karesi=sayı**2
plt.bar(sayı,karesi)
plt.xlabel("Sayı degeri")
plt.ylabel("Sayının Karesi")
plt.title("sayıların karesini alma")
plt.show()
ülke=["türkiye","abd","almanya","italya","ispanya","fransa","güney kore","japonya","uk","cin","hindistan"]
oran=[40,34.7,29.2,12.5,11.6,10.6,9.7,7.3,6.6,3.6,2.3]
plt.xlabel("Ülkeler")
plt.ylabel("Oranlar")
plt.title("YOGUN BAKIM YATAK SAYISI")#100bin kişi başına düşen
plt.bar(ülke,oran,color="grey")
plt.show()
Variable explorer
Name Type Size Value
a DataFrame (4, 4) Column names: ObservationDa...
a1 DataFrame (20, 8) Column names: SNo, Observat...
almanya DataFrame (105, 8) Column names: SNo, Observat...
b Series (222,) Series object of pandas.core.series module
c int32 (6, 2) Min: 0 Max: 1453
c1 Series (8,) Series object of pandas.core.series module
c2 DataFrame (55, 8) Column names: SNo, Observat...
c3 Series (23804,) Series object of pandas.core.series module
Help
Variable explorer
IPython console
Console 1/A
In [21]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/subplots.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [22]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/scatterPlot.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [23]: runfile('C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset/histogram.py', wdir='C:/Users/Windows10/Desktop/novel-corona-virus-2019-dataset')
In [24]:
IPython console
History log
Open file
Permissions: RW
End-of-lines: CRLF
Encoding: UTF-8
Line: 31
Column: 1
Memory: 65 %
Aramak için buraya yazın
15:03
14.05.2020


YOGUN BAKIM YATAK SAYISI
Oranlar
0
5
10
15
20
25
30
35
40
türkiye
abd
almanya
italya
ispanya
fransa
güney kore
japonya
uk
çin
hindistan
Ülkeler