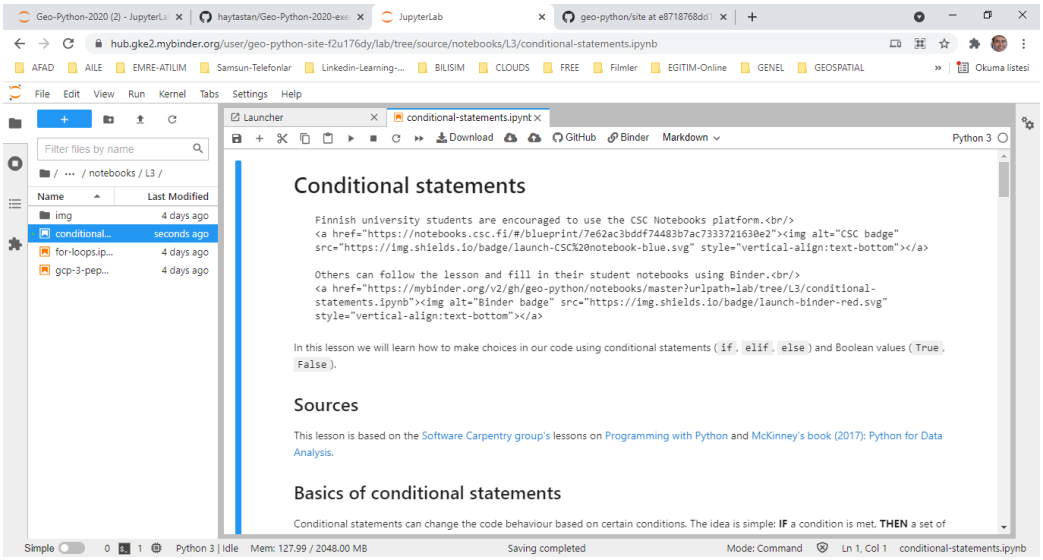
NASIL YAPTIM
Dr. Hayati TAŞTAN

LAB 3 uygulamalarını on-line yapmak:

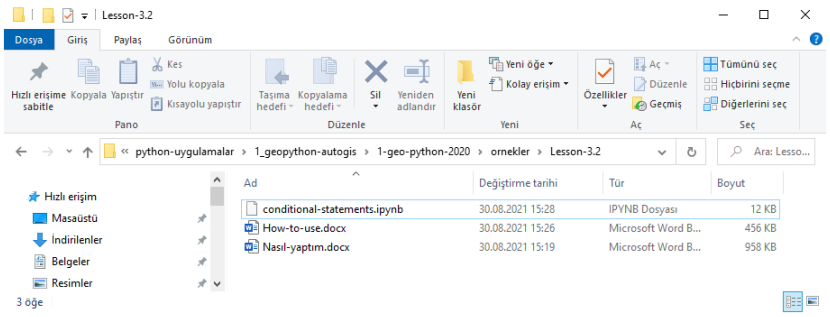
https://hub.gke2.mybinder.org/user/geo-python-site-f2u176dy/lab/tree/source/notebooks/L3/conditional-statements.ipynb adresine git. **conditional-statements.ipynb** dosyasına çift tıkla:



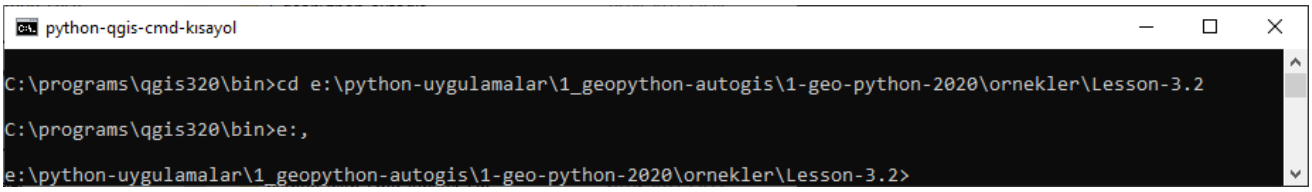
Sayfadaki kutular üzerine gelip SHIFT+ENTER basarak kutu içindeki python komutlarını çalıştır.

LAB 3 uygulamalarını off-line yapmak:

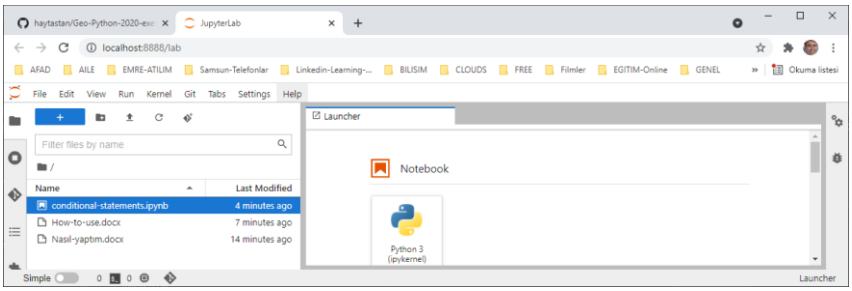
Üstteki download ile **conditional-statements.ipynb** isimli jupyter projesini yerel diske indir ve Lesson 3.2 içine aktar:



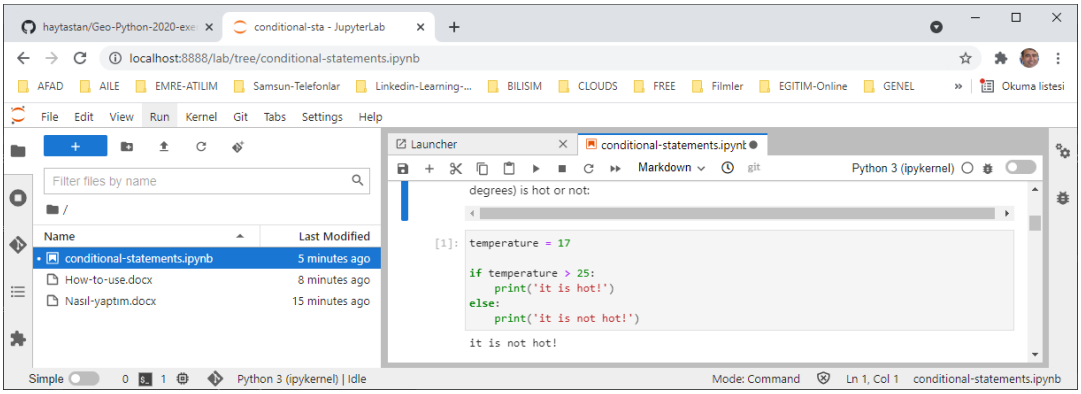
conditional-statements.ipynb isimli jupyter projesini, **jupyter lab** ortamında açalım:
QGIS Shell
cd G:\python-uygulamalar\1_geopython-autogis\1-geo-python-2020\ornekler\Lesson-3.2
G:



Jupyter lab

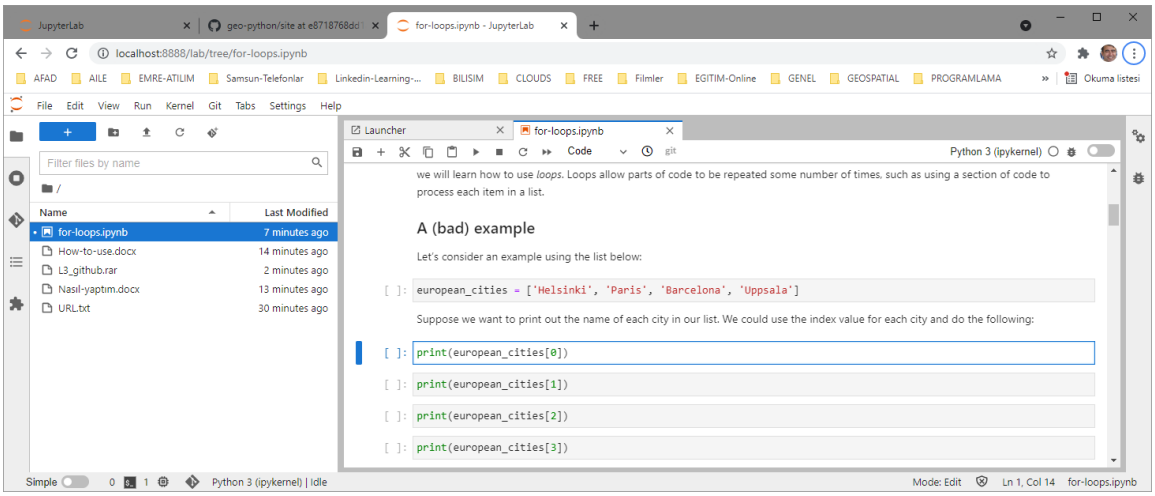


conditional-statements.ipynb isimli jupyter projesine çift tıklayalım:



Yukarıdaki sayfadaki kutular üzerine gelip, SHIFT+ENTER basarak kutu içindeki python komutlarını çalıştır (veya üstteki > düğmesi ile çalıştır):

Geo-Python-2020-exercise-3- solutions isiminde açılacak github reposuna konmak üzere **Örnek uygulama dosyaları :**



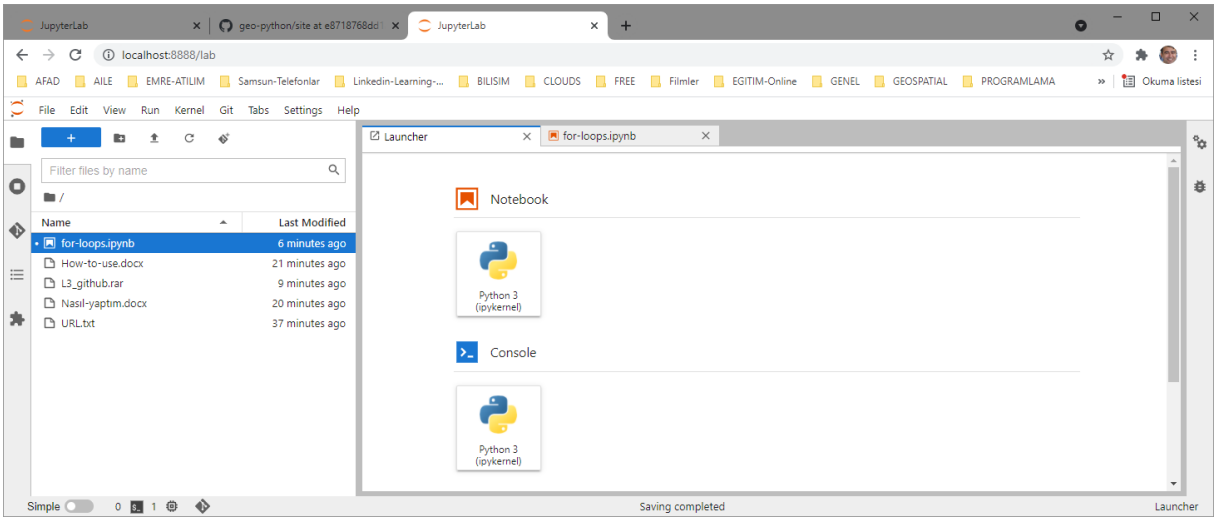
Yukarıdaki kodları **jupyter lab** ortamında çalıştıralım:

QGIS Shell

cd G:\python-uygulamalar\1_geopython-autogis\1-geo-python-2020\ornekler\Lesson-3.1

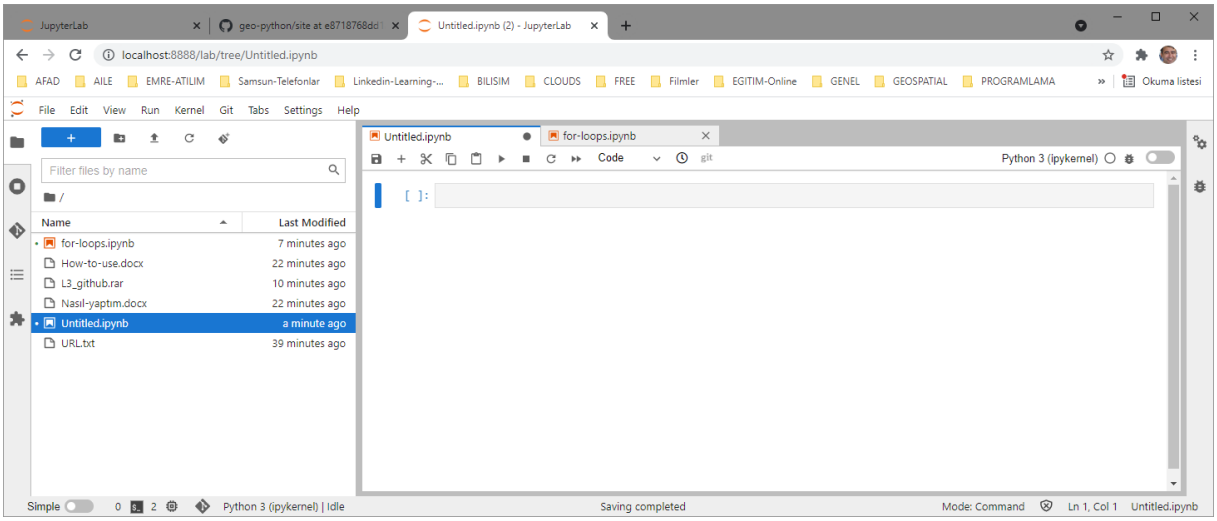
G:

Jupyter lab

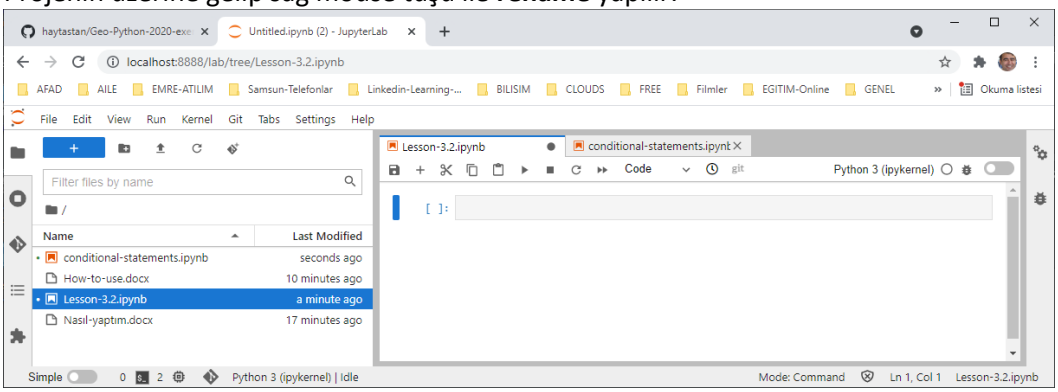


Luncher / Python 3

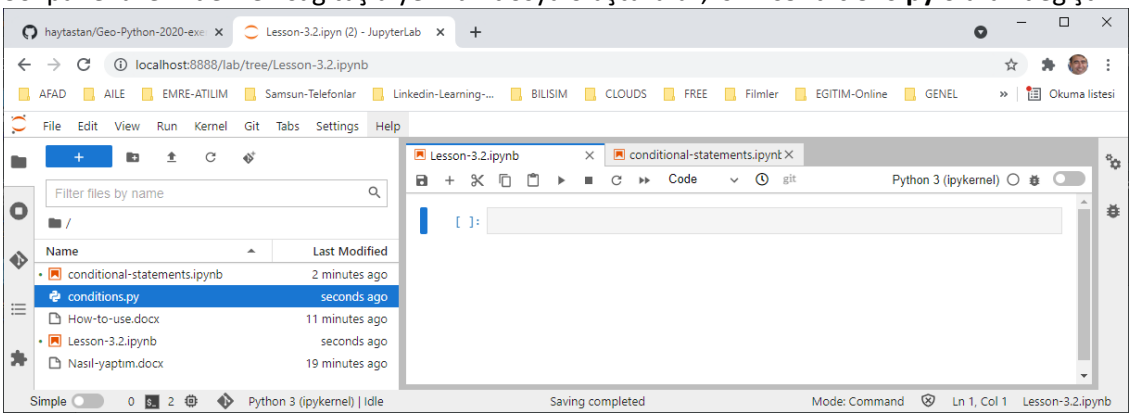
ile yeni bir jupyter projesi (**Untitled.ipynb**) oluşturulur:



Projenin üzerine gelip sağ mouse tuşu ile **rename** yapılır:



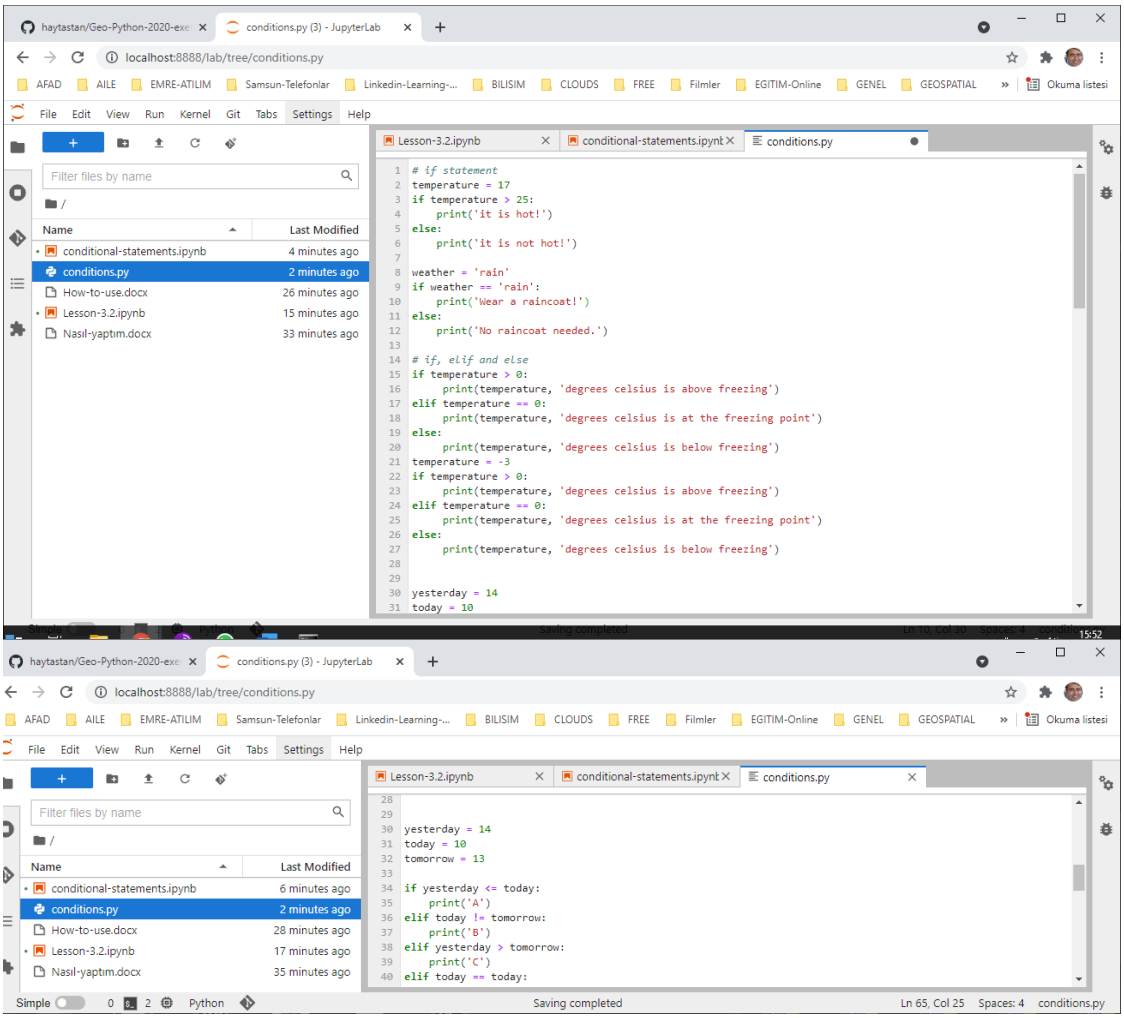
Sol panel üzerinde iken sağ tuşla yeni bir dosya oluşturulur, ismi **conditions.py** olarak değiştirilir:

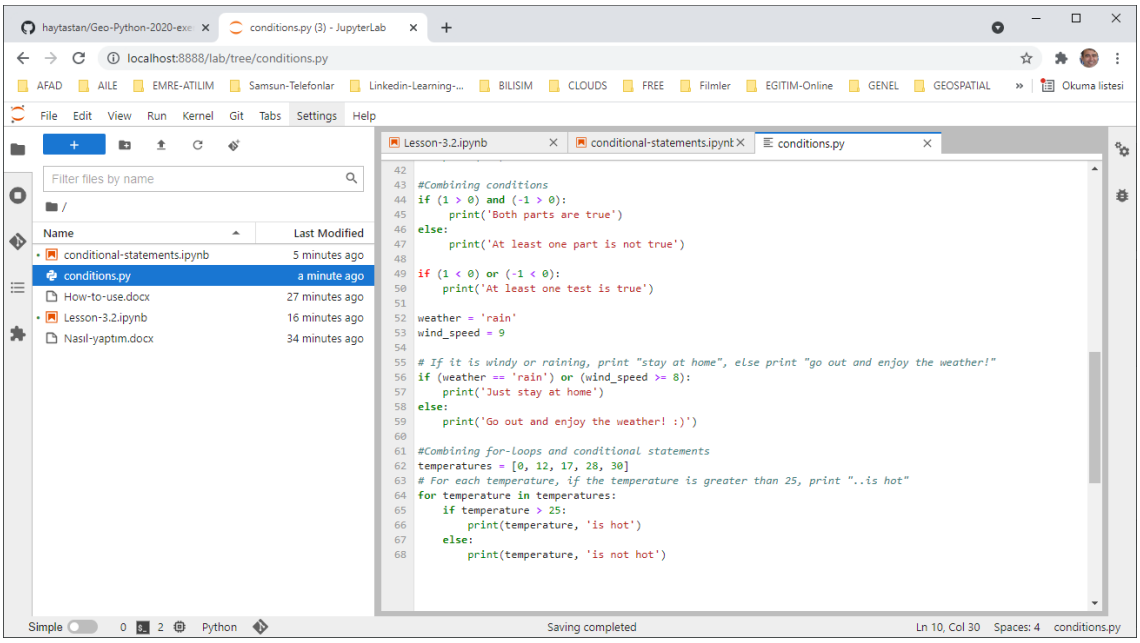


conditions.py üzerine çift tıklayılıp aşağıdaki kod bu dosya içine yazılır ve kaydedilir (CTRL+S)
(Aşağıdaki kodlar http://localhost:8888/lab/tree/conditional-statements.ipynb projesinden alınmıştır)

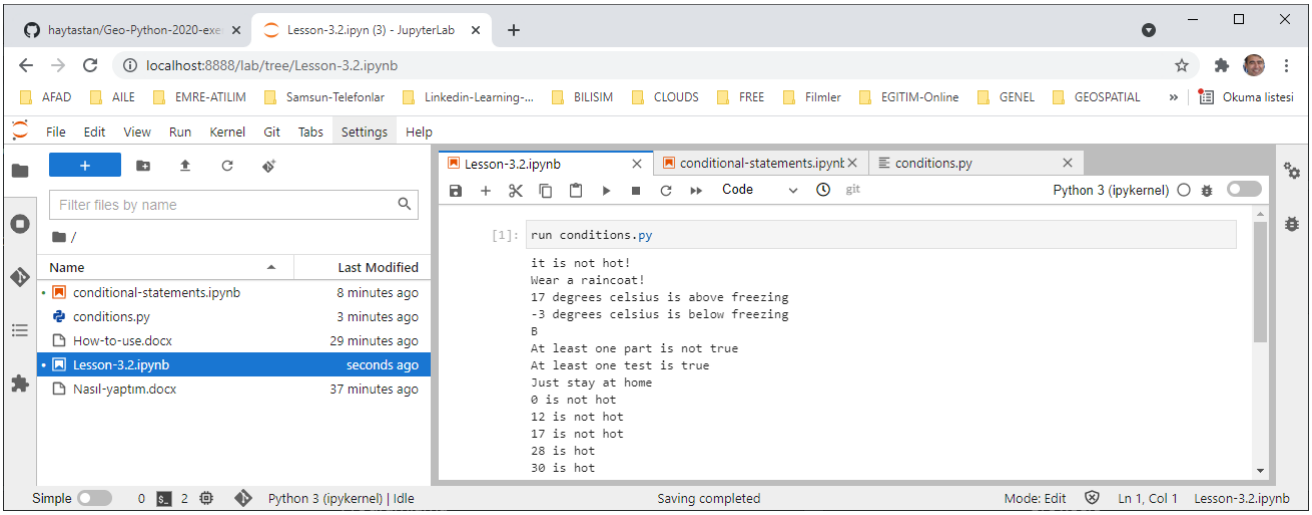
```
# if statement
temperature = 17
if temperature > 25:
    print('it is hot!')
else:
    print('it is not hot!')

weather = 'rain'
if weather == 'rain':
    print('Wear a raincoat!')
else:
    print('No raincoat needed.')

# if, elif and else
if temperature > 0:
     print(temperature, 'degrees celsius is above freezing')
elif temperature == 0:
     print(temperature, 'degrees celsius is at the freezing point')
else:
     print(temperature, 'degrees celsius is below freezing')
temperature = -3
if temperature > 0:
     print(temperature, 'degrees celsius is above freezing')
elif temperature == 0:
     print(temperature, 'degrees celsius is at the freezing point')
else:
     print(temperature, 'degrees celsius is below freezing')


yesterday = 14
today = 10
tomorrow = 13

if yesterday <= today:
    print('A')
elif today != tomorrow:
    print('B')
elif yesterday > tomorrow:
    print('C')
elif today == today:
    print('D')

#Combining conditions
if (1 > 0) and (-1 > 0):
     print('Both parts are true')
else:
     print('At least one part is not true')

if (1 < 0) or (-1 < 0):
    print('At least one test is true')

weather = 'rain'
wind_speed = 9

# If it is windy or raining, print "stay at home", else print "go out and enjoy
the weather!"
if (weather == 'rain') or (wind_speed >= 8):
    print('Just stay at home')
else:
    print('Go out and enjoy the weather! :)')


#Combining for-loops and conditional statements
temperatures = [0, 12, 17, 28, 30]
# For each temperature, if the temperature is greater than 25, print "..is hot"
```

```
for temperature in temperatures:
    if temperature > 25:
        print(temperature, 'is hot')
    else:
        print(temperature, 'is not hot')
```





Lesson-3.2.ipynb proje dosyasına çift tıklatılır ve açılan kutu içine aşağıdaki komut yazılır:
run loop.py
ve imleç kutu içinde iken **SHIFT+ENTER** tuşlarına basılara komut çalıştırılır:

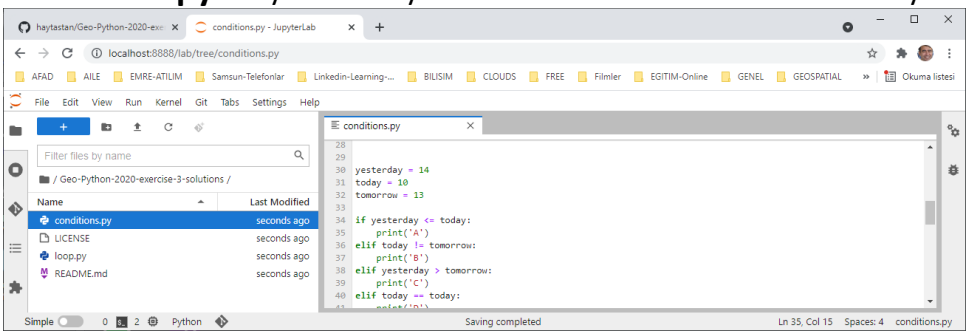


conditions.py dosyasını github'a aktarma:

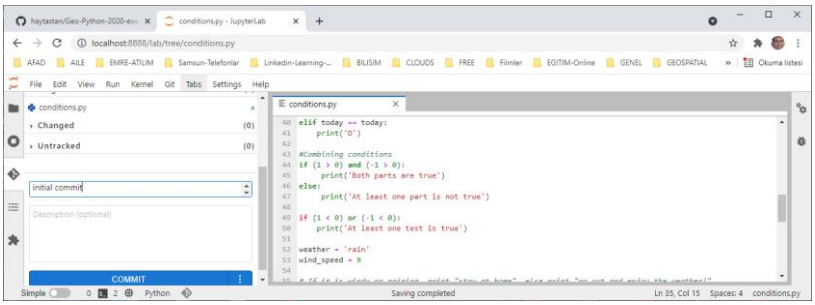
Github ortamından **Geo-Python-2020-exercise-3-solutions** isimli repo clone edilir:
(user: mygmail, pass: Çocuklar+1962)

Repo clone edilir (Git Colne a repository)
Adres olarak: https://github.com/haytastan/Geo-Python-2020-exercise-3-solutions

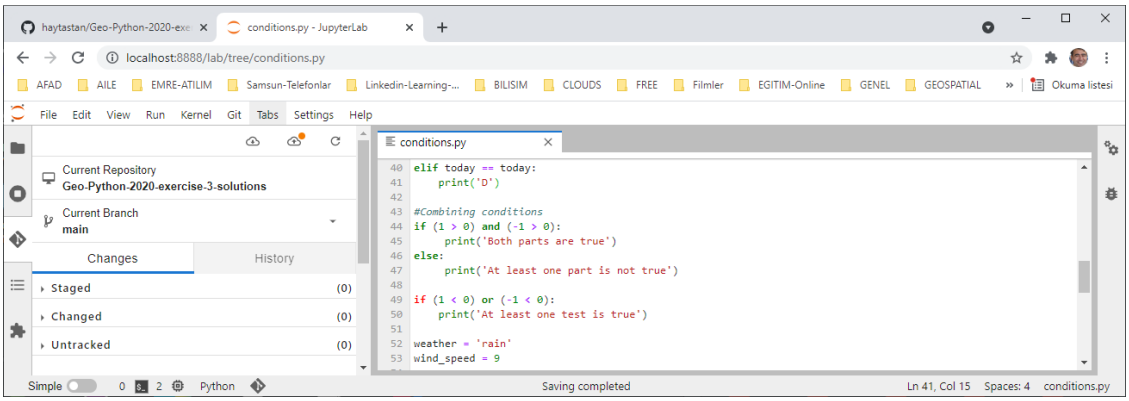
conditions.py dosyası Geo-Python-2020-exercise-3-solutions isimli yerel repo içine kopyalanır.



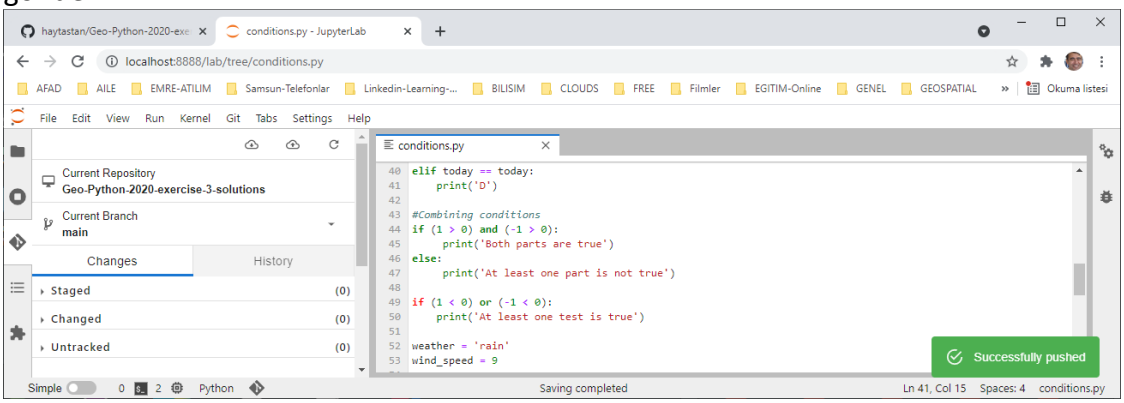
Sol panodaki **Git** ikonuna tıklanıp**, conditions.py** seçilip, dosyanın sağındaki **+** işareti (Track this file) tıklanır, dosya olduğu doğrudan "staged" area içine aktarılır.



Aşağıdaki **summary kutusu içine** initial commit yazılır. Ve en alttaki **COMMIT** düğmesine tıklanarak değişiklikler, dosya push için hazır hale getirilir:



Üstteki **Git/Push to remote** menüsü ile **stage area**'daki değişiklikler uzaktaki **github** reposuna gönderilir:



Github reposunda, **conditions.py** görülür: