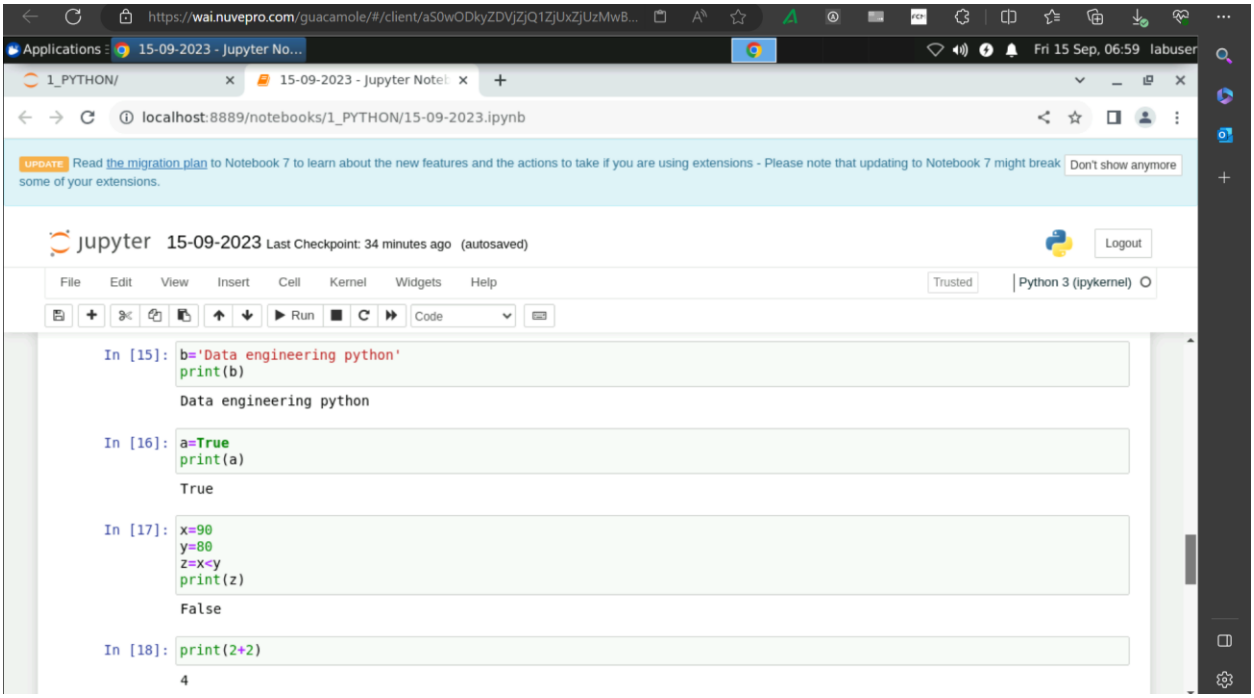
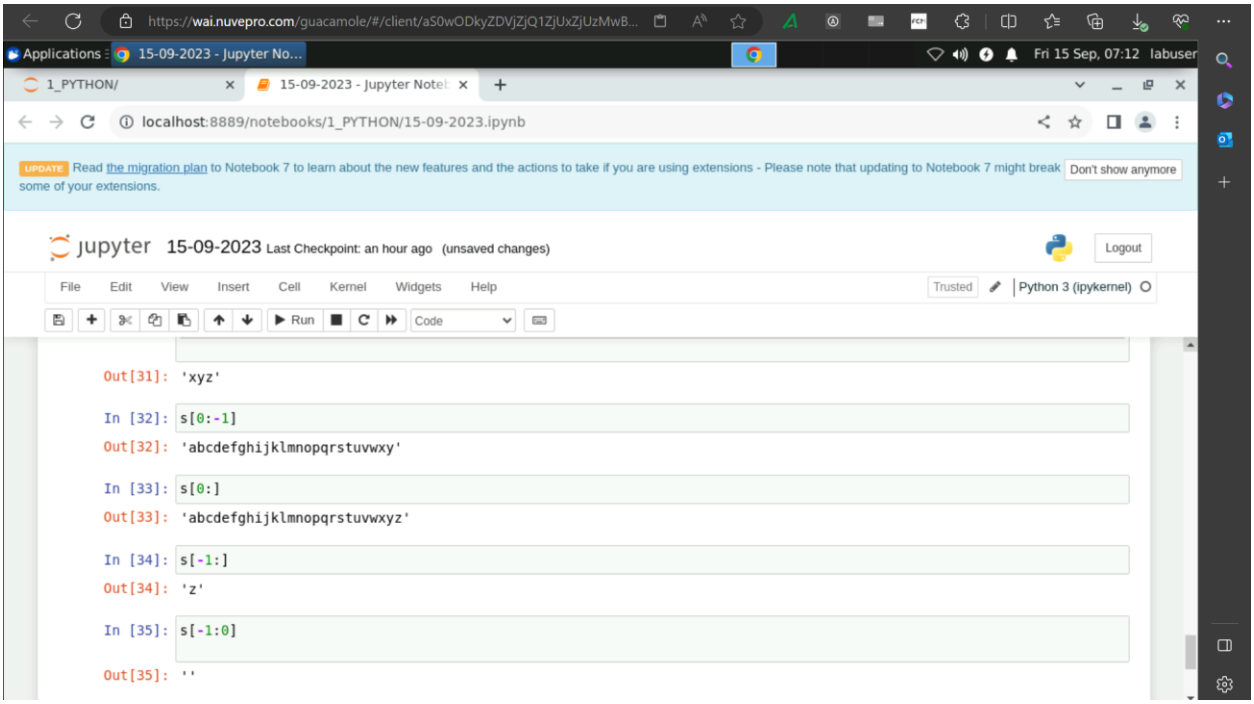
PYTHON

Python Hands-on

- Data types
- Logical operators
- Indexing
- Slicing
- List
- Tuple
- Formatted string
- Set
- Dictionary
- Membership operator
- Zip




Applications
15-09-2023 - Jupyter No...
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labuser
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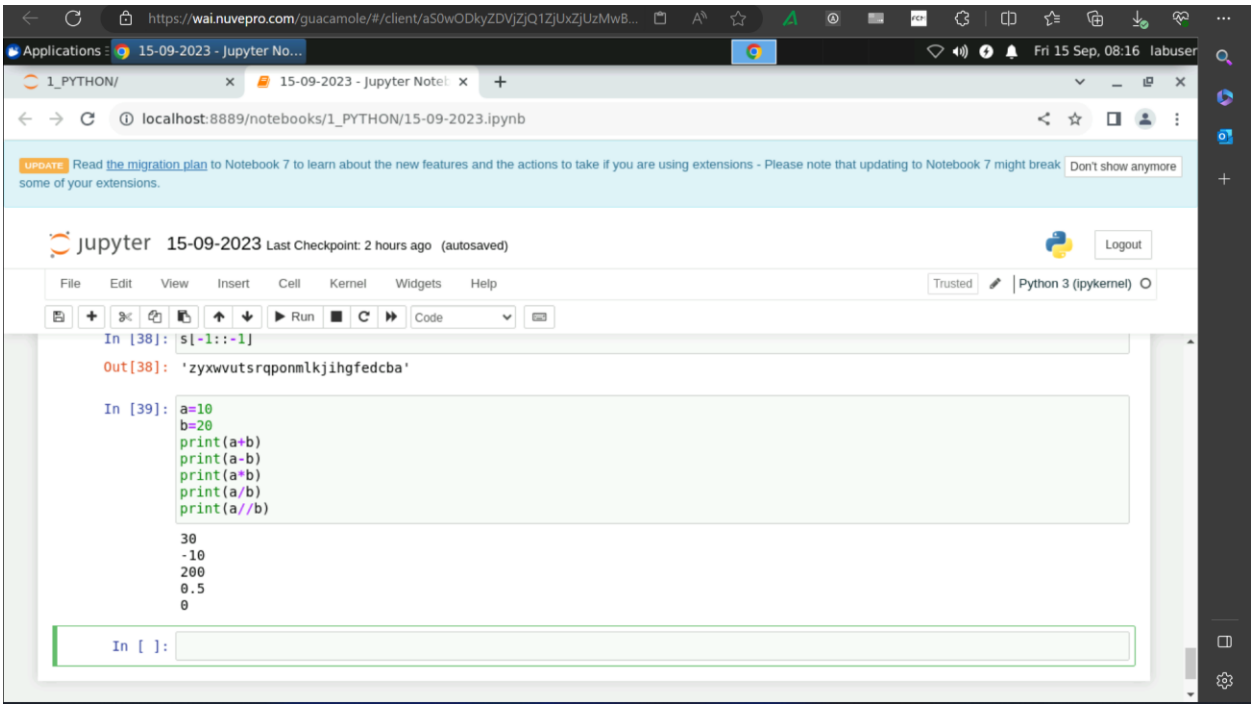
Don't show anymore
jupyter 15-09-2023 Last Checkpoint: an hour ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
Out[31]: 'xyz'
In [32]: s[0:-1]
Out[32]: 'abcdefghijklmnopqrstuvwxy'
In [33]: s[0:]
Out[33]: 'abcdefghijklmnopqrstuvwxyz'
In [34]: s[-1:]
Out[34]: 'z'
In [35]: s[-1:0]
Out[35]: ''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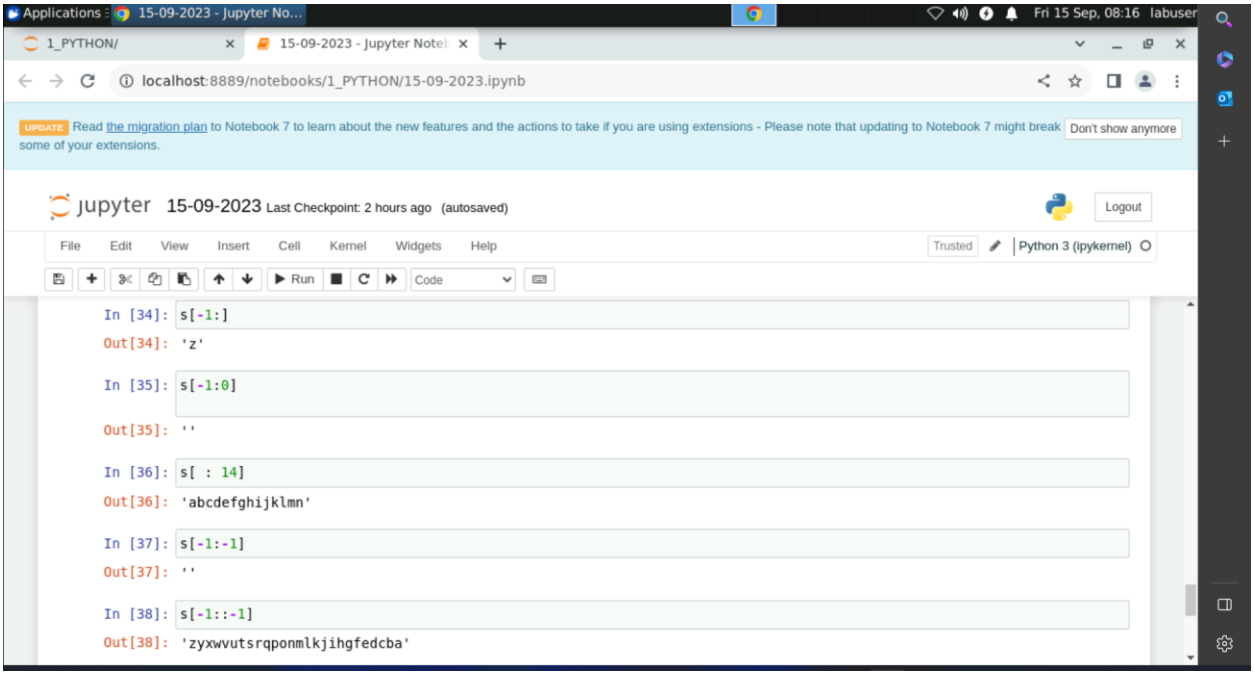
Trusted
Python 3 (ipykernel)
Run
Code
In [38]: s[-1::-1]
Out[38]: 'zyxwvutsrqponmlkjihgfedcba'
In [39]: a=10
b=20
print(a+b)
print(a-b)
print(a*b)
print(a/b)
print(a//b)
30
-10
200
0.5
0
In [ ]: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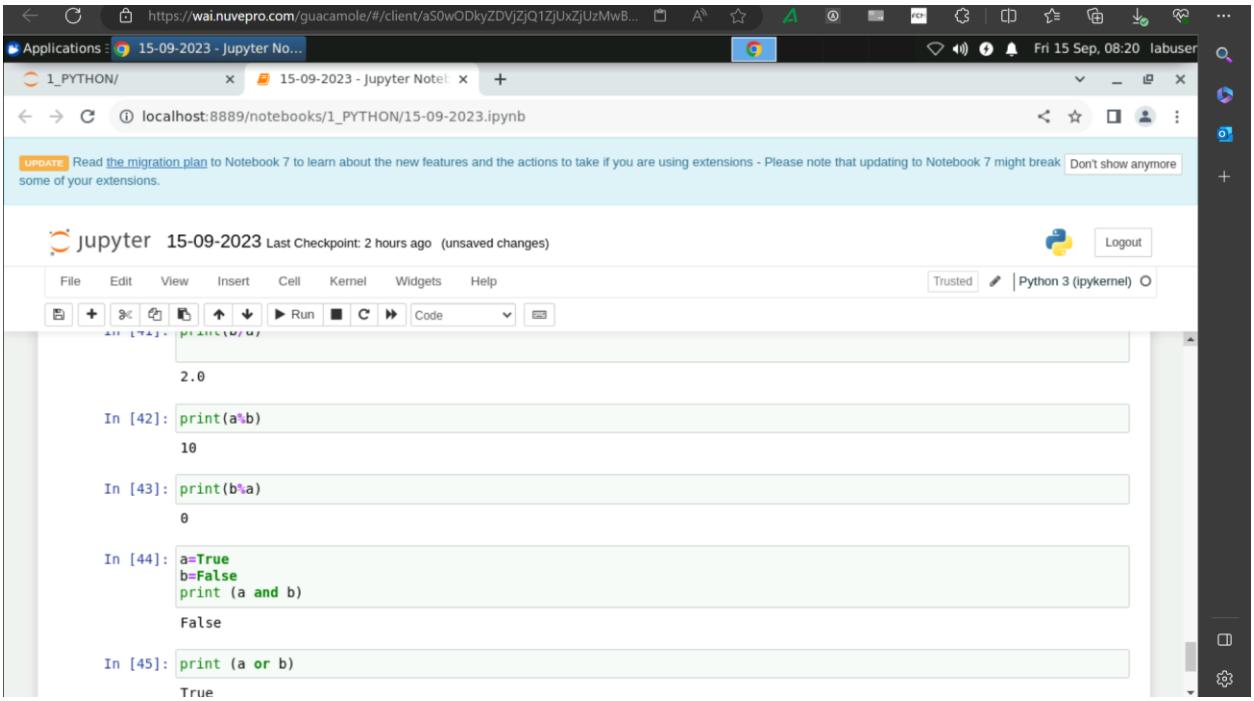
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [34]: s[-1:]
Out[34]: 'z'
In [35]: s[-1:0]
Out[35]: ''
In [36]: s[: 14]
Out[36]: 'abcdefghijklmn'
In [37]: s[-1:-1]
Out[37]: ''
In [38]: s[-1::-1]
Out[38]: 'zyxwvutsrqponmlkjihgfedcba'


https://wai.nuvepro.com/guacamole/#/client/aS0wODkyZDVjZjQ1ZjUxZjUzMwB...
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Logout
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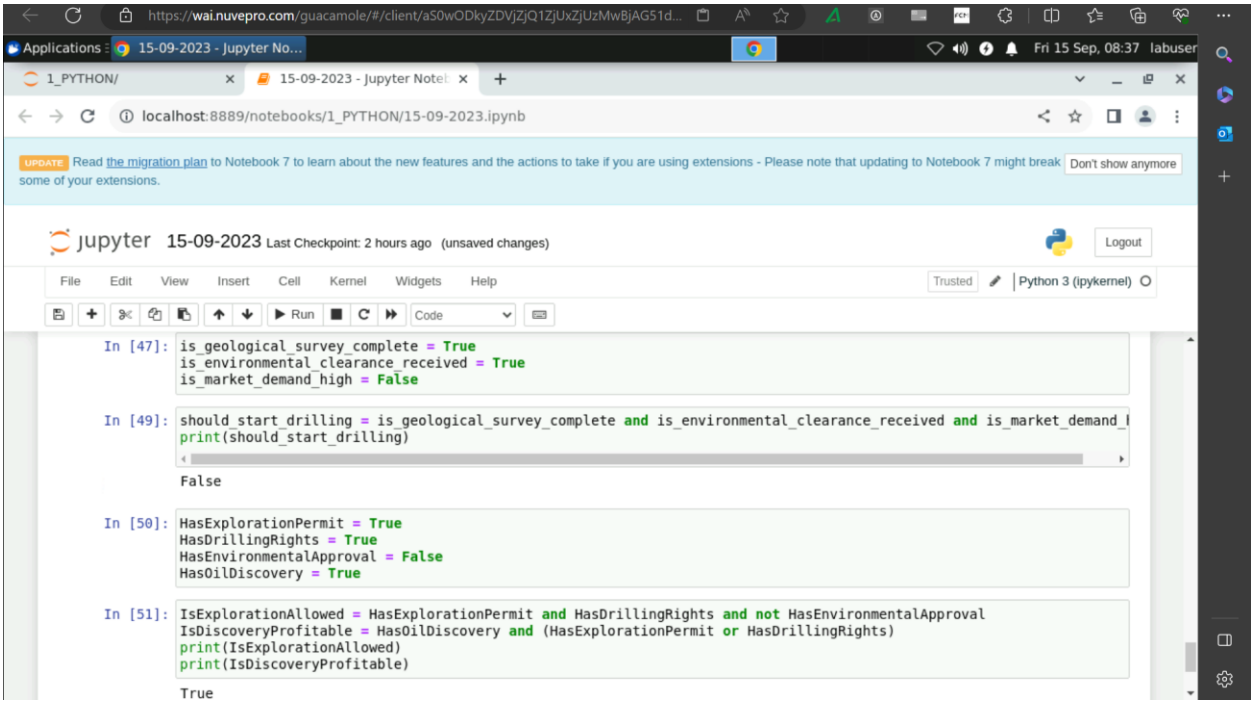
Trusted
Python 3 (ipykernel)
Run
Code
2.0
In [42]: print(a%b)
10
In [43]: print(b%a)
0
In [44]: a=True
b=False
print (a and b)
False
In [45]: print (a or b)
True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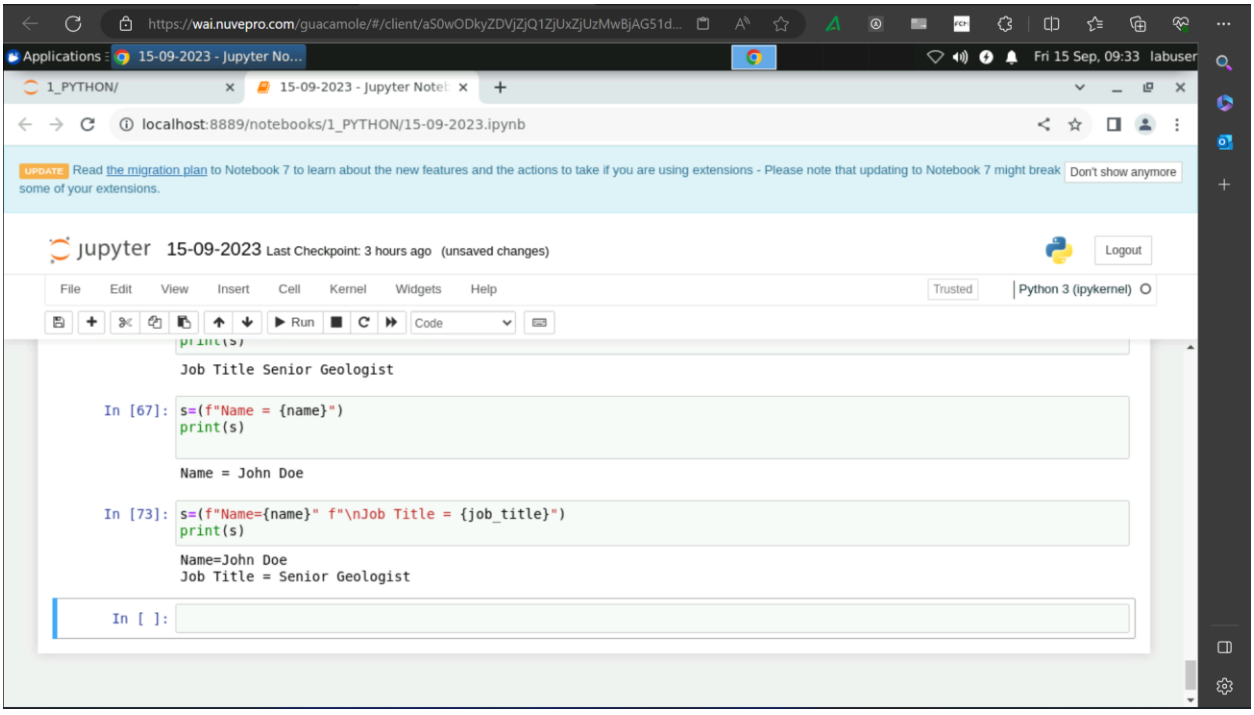
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [47]:
is_geological_survey_complete = True
is_environmental_clearance_received = True
is_market_demand_high = False
In [49]:
should_start_drilling = is_geological_survey_complete and is_environmental_clearance_received and is_market_demand_
print(should_start_drilling)
False
In [50]:
HasExplorationPermit = True
HasDrillingRights = True
HasEnvironmentalApproval = False
HasOilDiscovery = True
In [51]:
IsExplorationAllowed = HasExplorationPermit and HasDrillingRights and not HasEnvironmentalApproval
IsDiscoveryProfitable = HasOilDiscovery and (HasExplorationPermit or HasDrillingRights)
print(IsExplorationAllowed)
print(IsDiscoveryProfitable)
True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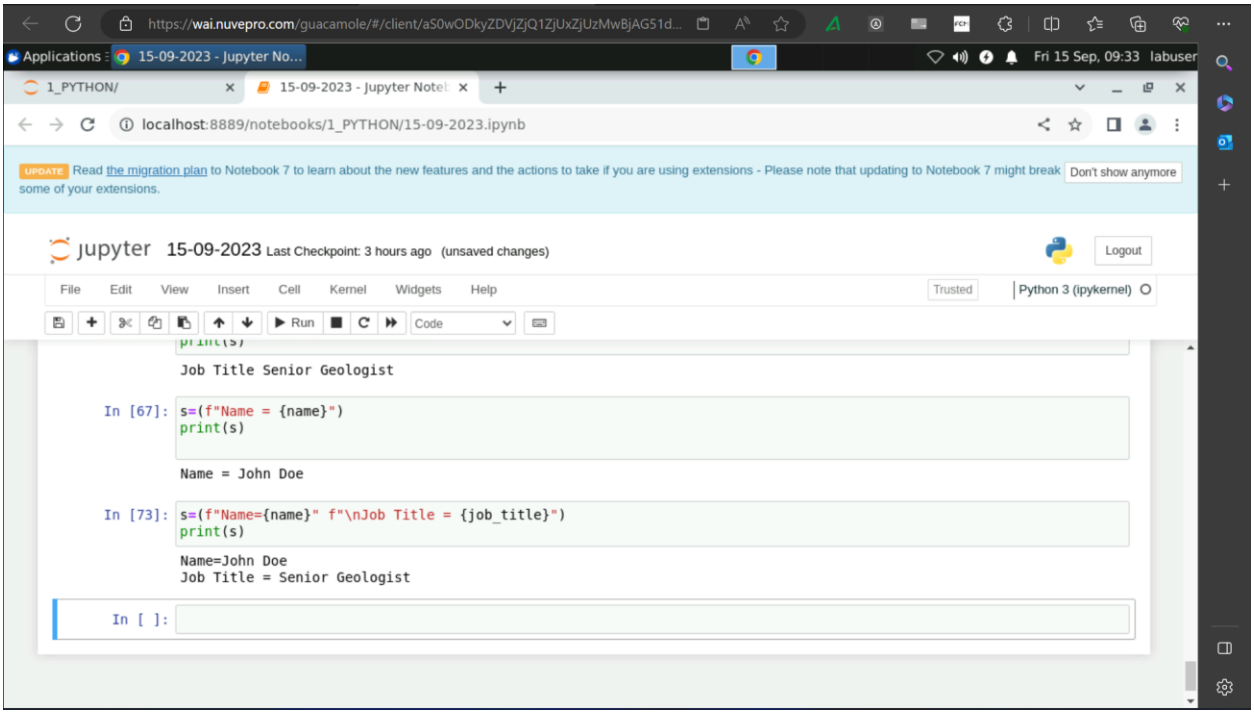
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
Job Title Senior Geologist
In [67]:
s=(f"Name = {name}")
print(s)
Name = John Doe
In [73]:
s=(f"Name={name}" f"\nJob Title = {job_title}")
print(s)
Name=John Doe
Job Title = Senior Geologist
In [ ]:


Applications
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Fri 15 Sep, 09:33 labuser
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Logout
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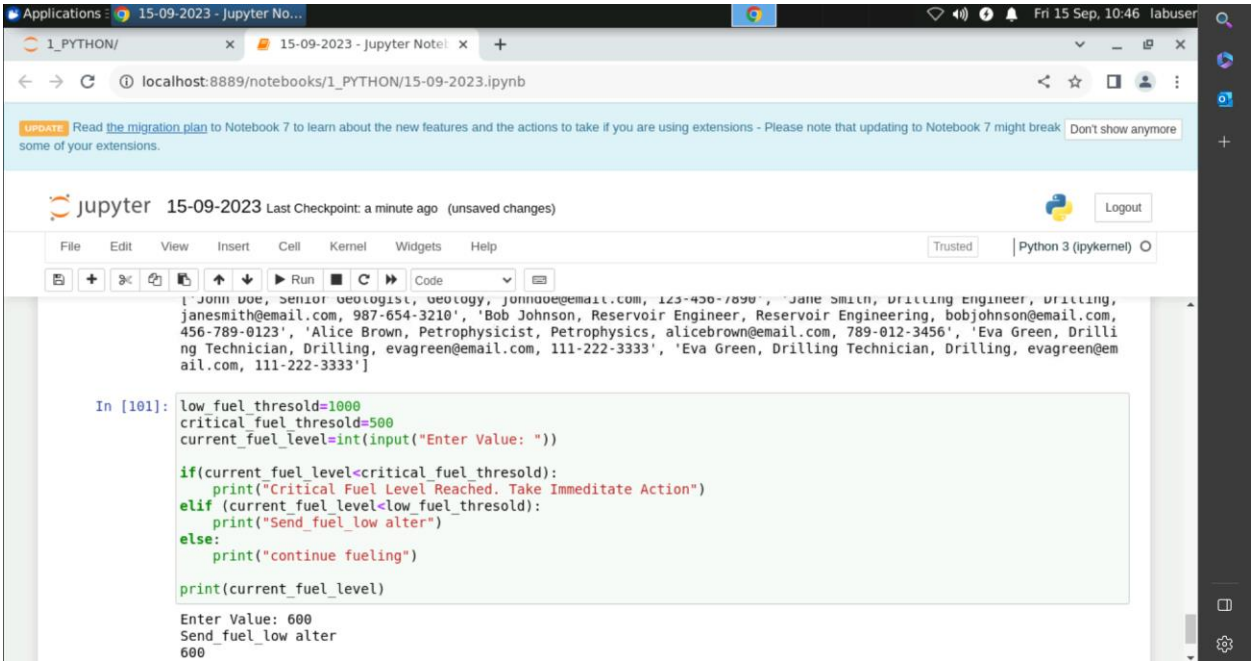
Trusted
Python 3 (ipykernel)
Run
Code
Job Title Senior Geologist
In [67]:
s=(f"Name = {name}")
print(s)
Name = John Doe
In [73]:
s=(f"Name={name}" f"\nJob Title = {job_title}")
print(s)
Name=John Doe
Job Title = Senior Geologist
In [ ]:


Applications
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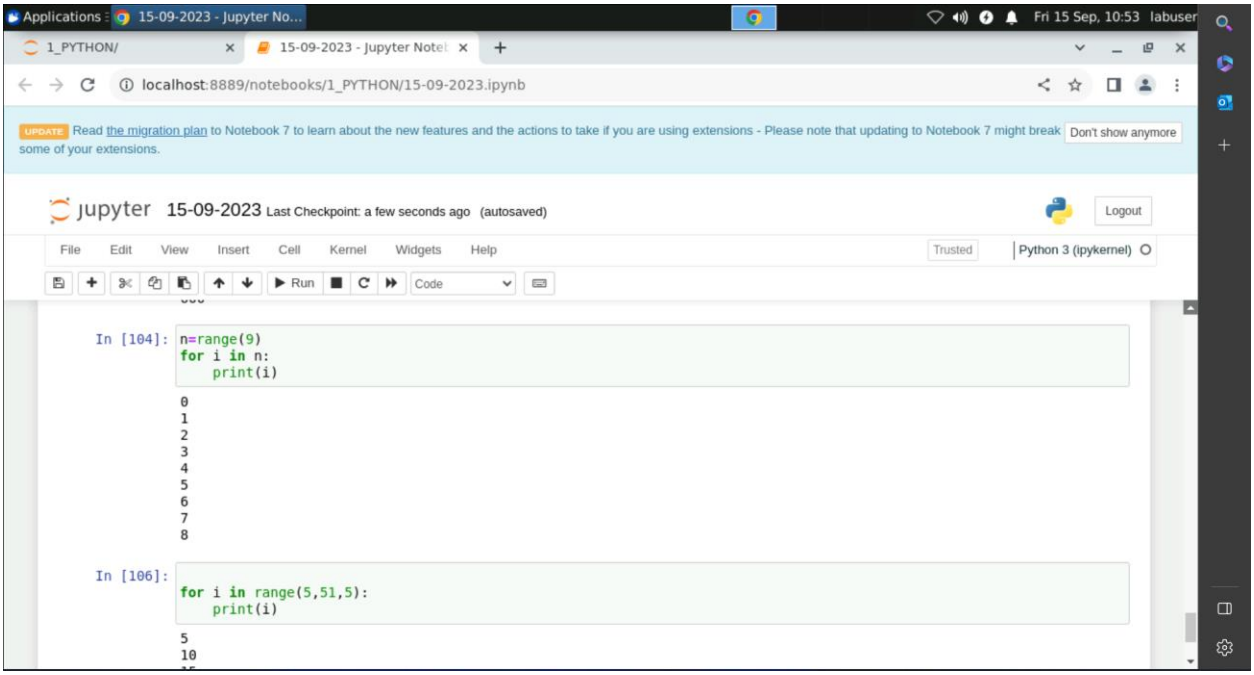
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
janesmith@email.com, 987-654-3210', 'Bob Johnson, Reservoir Engineer, Reservoir Engineering, bobjohnson@email.com, 456-789-0123', 'Alice Brown, Petrophysicist, Petrophysics, alicebrown@email.com, 789-012-3456', 'Eva Green, Drilling Technician, Drilling, evagreen@email.com, 111-222-3333', 'Eva Green, Drilling Technician, Drilling, evagreen@email.com, 111-222-3333']
In [101]:
low_fuel_thresold=1000
critical_fuel_thresold=500
current_fuel_level=int(input("Enter Value: "))
if(current_fuel_level<critical_fuel_thresold):
print("Critical Fuel Level Reached. Take Immeditate Action")
elif (current_fuel_level<low_fuel_thresold):
print("Send_fuel_low alter")
else:
print("continue fueling")
print(current_fuel_level)
Enter Value: 600
Send_fuel_low alter
600


Applications
15-09-2023 - Jupyter No...
Fri 15 Sep, 10:53 labuser
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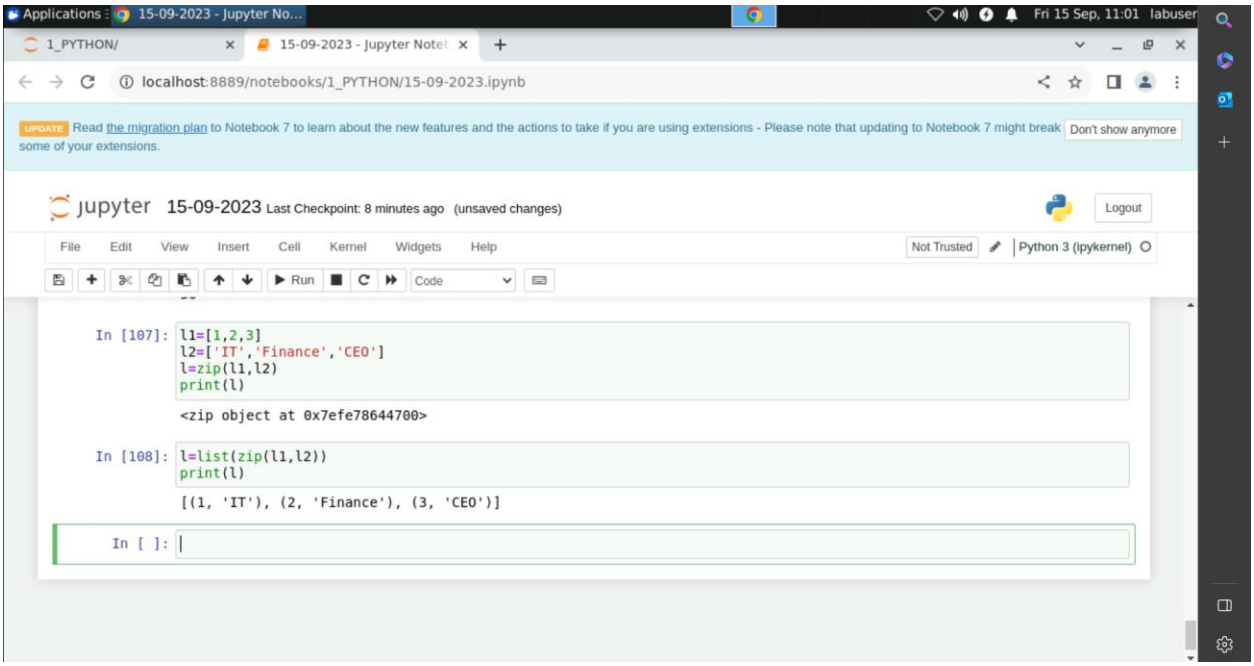
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [104]:
n=range(9)
for i in n:
print(i)
0
1
2
3
4
5
6
7
8
In [106]:
for i in range(5,51,5):
print(i)
5
10


Applications
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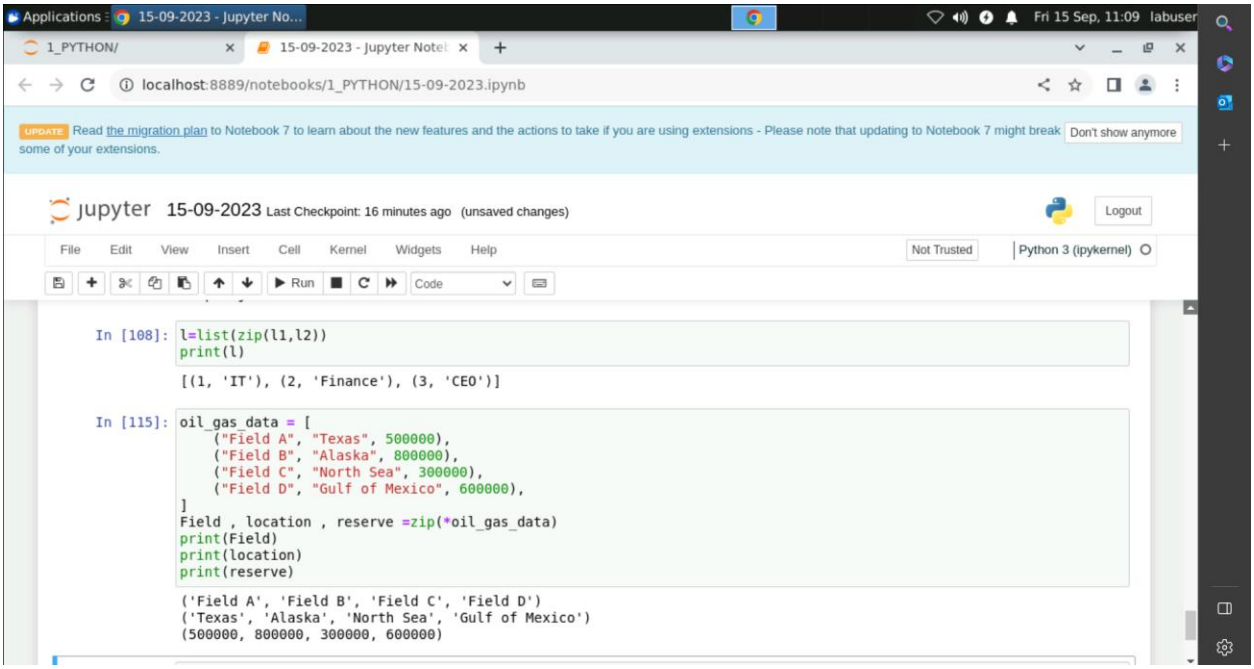
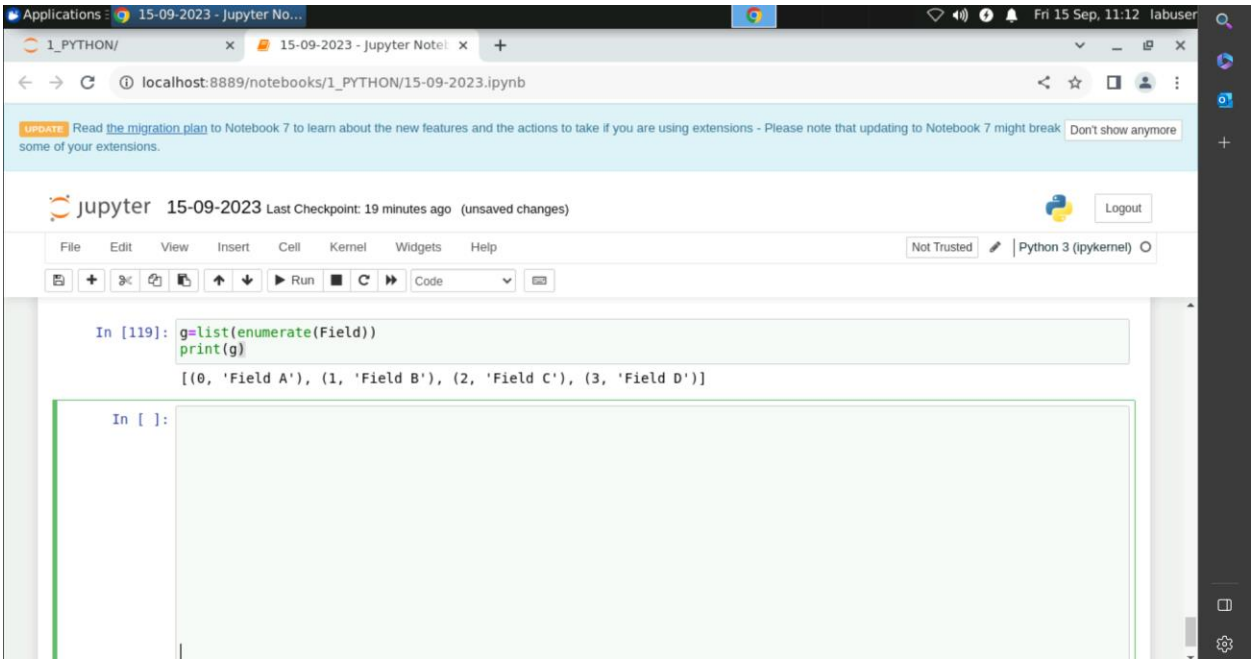
Logout
File Edit View Insert Cell Kernel Widgets Help
Not Trusted
Python 3 (ipykernel)
Run
Code
In [107]:
l1=[1,2,3]
l2=['IT','Finance','CEO']
l=zip(l1,l2)
print(l)
<zip object at 0x7efe78644700>
In [108]:
l=list(zip(l1,l2))
print(l)
[(1, 'IT'), (2, 'Finance'), (3, 'CEO')]
In [ ]:






```
for index, field_data in enumerate(oil_gas_data):
    field_name, location, reserve = field_data
    print(f"Field {index+1}: {field_name} is located in {location} with reserves of {reserve} barrels.")
```