Bui Duc Manh

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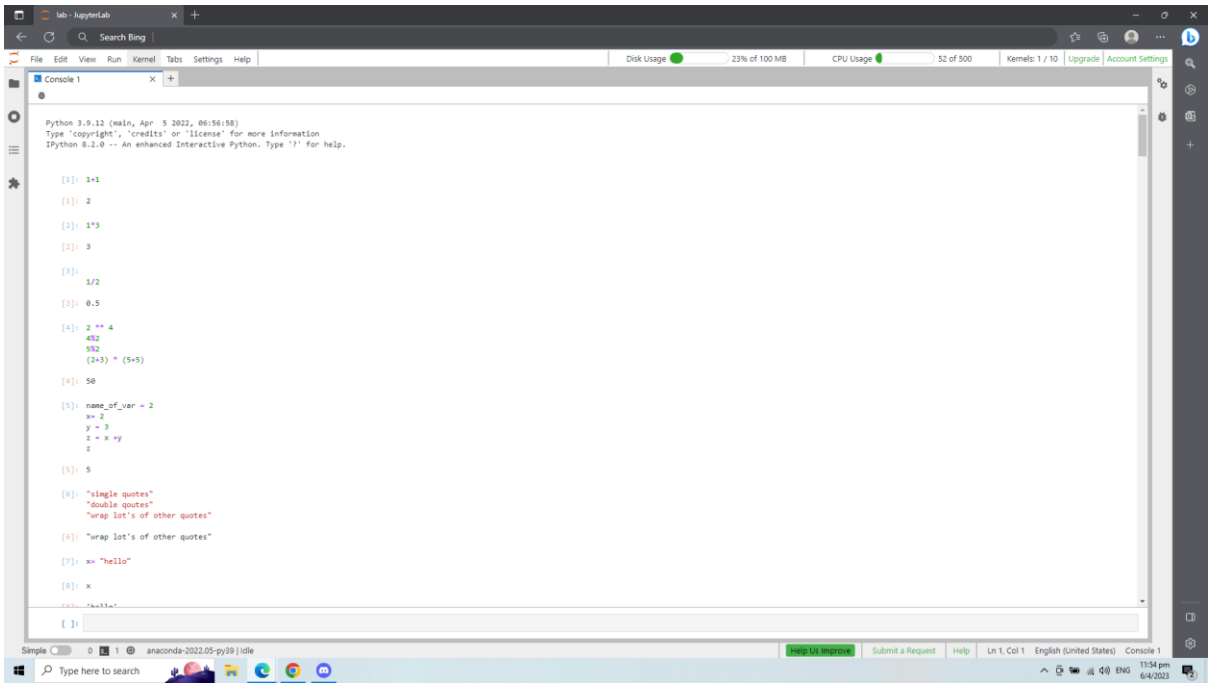
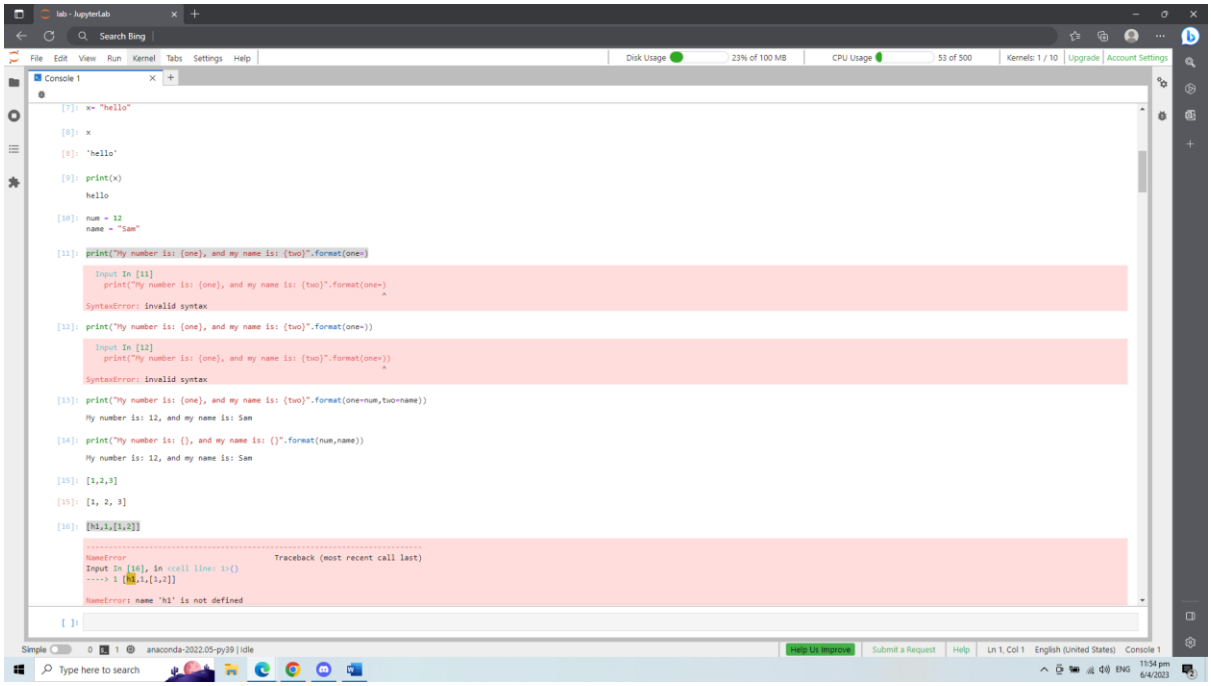
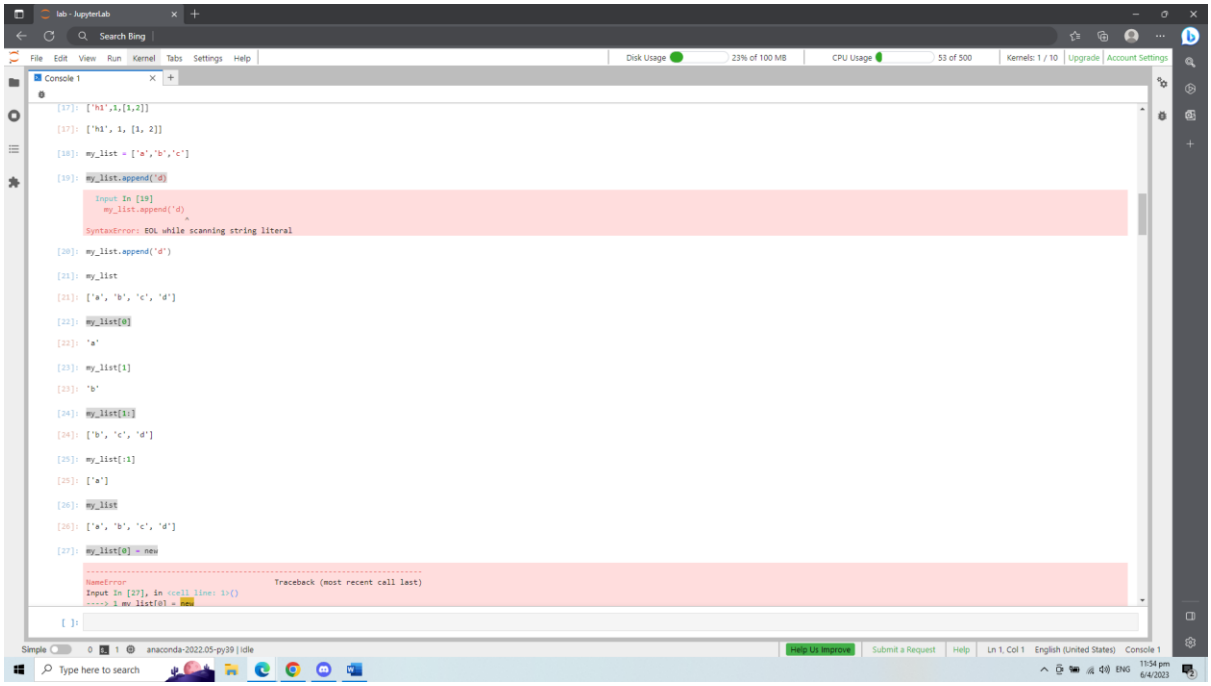
Link github: https://github.com/DucManh75/lab1.git

Lab1

Exercise3:



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Account Settings
Console 1
[37]: ['h1',1,[1,2]]
[37]: ['h1', 1, [1, 2]]
[38]: my_list = ['a','b','c']
[39]: my_list.append('d)
Input In [19]
my_list.append('d)
^
SyntaxError: EOL while scanning string literal
[20]: my_list.append('d')
[21]: my_list
[21]: ['a', 'b', 'c', 'd']
[22]: my_list[0]
[22]: 'a'
[23]: my_list[1]
[23]: 'b'
[24]: my_list[1:]
[24]: ['b', 'c', 'd']
[25]: my_list[:1]
[25]: ['a']
[26]: my_list
[26]: ['a', 'b', 'c', 'd']
[27]: my_list[0] = new
NameError Traceback (most recent call last)
Input In [27], in <cell line: 1>()
----> 1 my_list[0] = new
[ ]:
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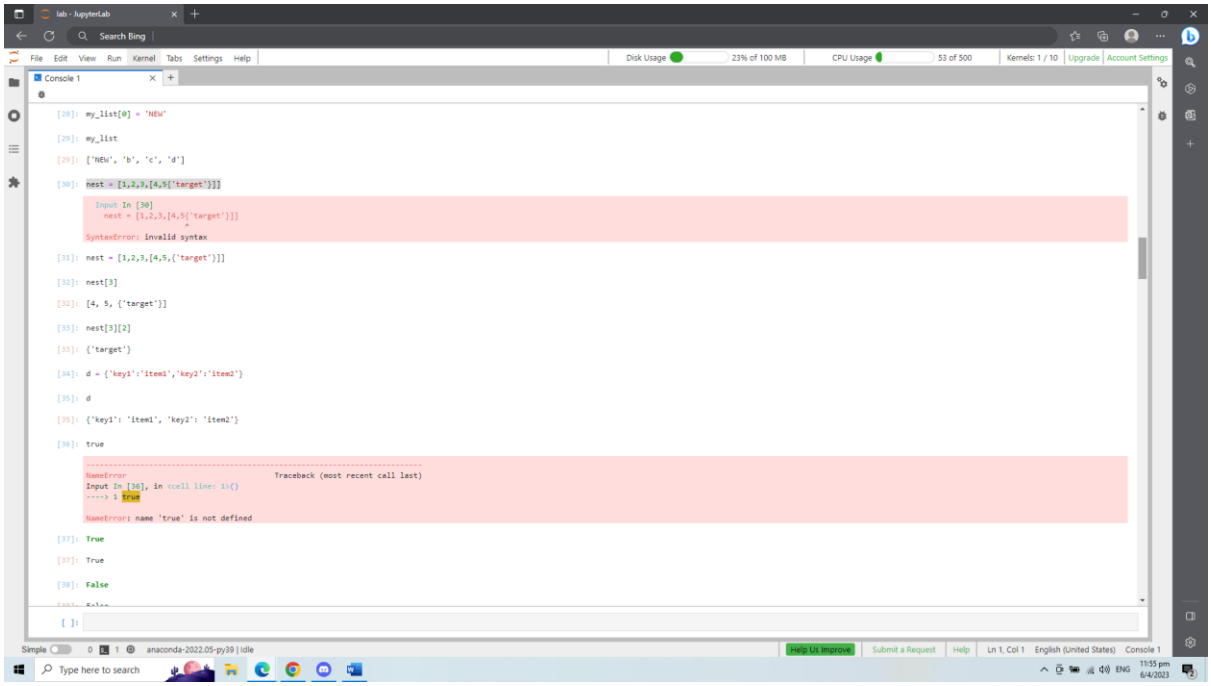
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Console 1
[28]: my_list[0] = 'NEW'
[29]: my_list
[29]: ['NEW', 'b', 'c', 'd']
[30]: nest = [1,2,3,[4,5{'target'}]]
Input In [30]
nest = [1,2,3,[4,5{'target'}]]
^
SyntaxError: invalid syntax
[31]: nest = [1,2,3,[4,5,{'target'}]]
[32]: nest[3]
[32]: [4, 5, {'target'}]
[33]: nest[3][2]
[33]: {'target'}
[34]: d = {'key1':'item1','key2':'item2'}
[35]: d
[35]: {'key1': 'item1', 'key2': 'item2'}
[36]: true
NameError Traceback (most recent call last)
Input In [36], in <cell line: 1>()
----> 1 true
NameError: name 'true' is not defined
[37]: True
[37]: True
[38]: False
[ ]:
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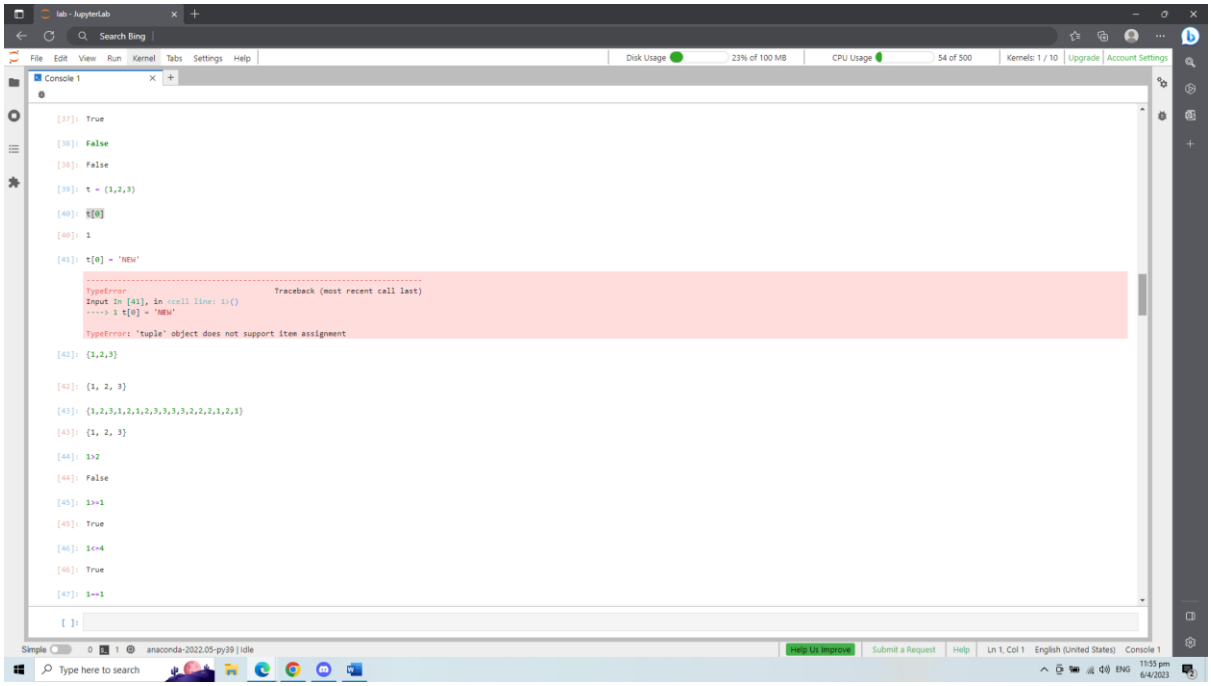
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Account Settings
Console 1
[37]: True
[38]: False
[38]: False
[39]: t = (1,2,3)
[40]: t[0]
[40]: 1
[41]: t[0] = 'NEW'
TypeError Traceback (most recent call last)
Input In [41], in <cell line: 1>()
----> 1 t[0] = 'NEW'
TypeError: 'tuple' object does not support item assignment
[42]: {1,2,3}
[42]: {1, 2, 3}
[43]: {1,2,3,1,2,1,2,3,3,3,3,2,2,2,1,2,1}
[43]: {1, 2, 3}
[44]: 1>2
[44]: False
[45]: 1>=1
[45]: True
[46]: 1<=4
[46]: True
[47]: 1==1
[ ]:
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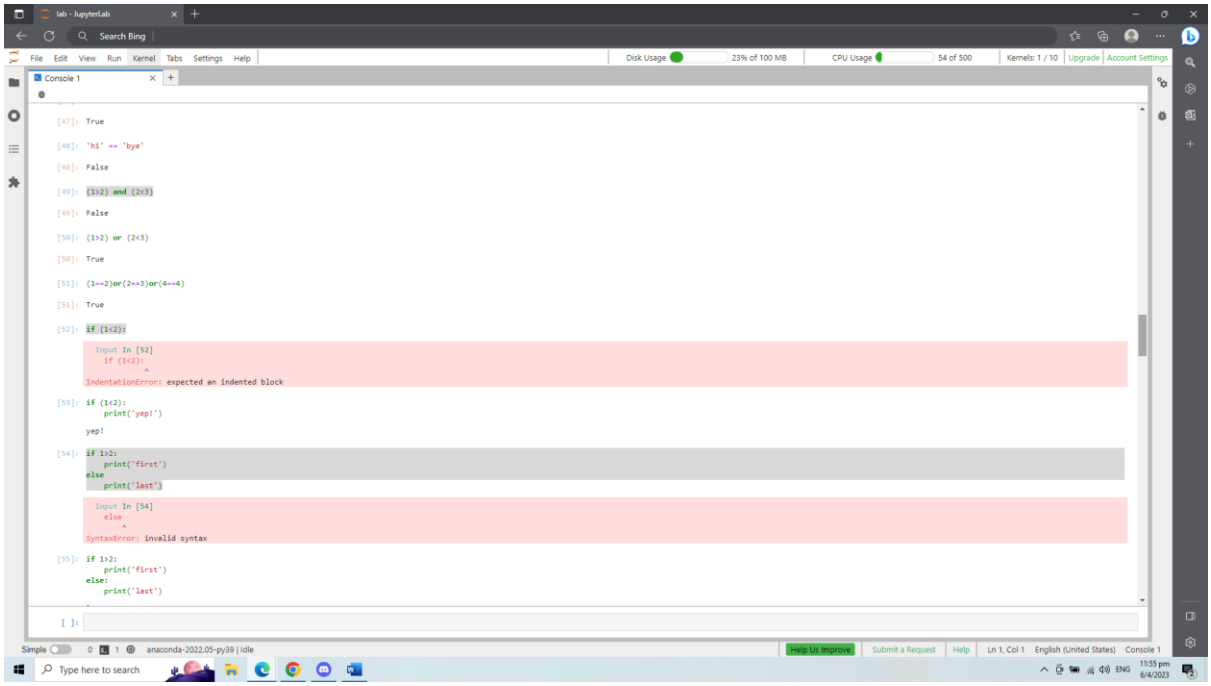
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Console 1
[47]: True
[48]: 'hi' == 'bye'
[48]: False
[49]: (1>2) and (2<3)
[49]: False
[50]: (1>2) or (2<3)
[50]: True
[51]: (1==2)or(2==3)or(4==4)
[51]: True
[52]: if (1<2):
Input In [52]
if (1<2):
^
IndentationError: expected an indented block
[53]: if (1<2):
print('yep!')
yep!
[54]: if 1>2:
print('first')
else
print('last')
Input In [54]
else
^
SyntaxError: invalid syntax
[55]: if 1>2:
print('first')
else:
print('last')
[ ]:
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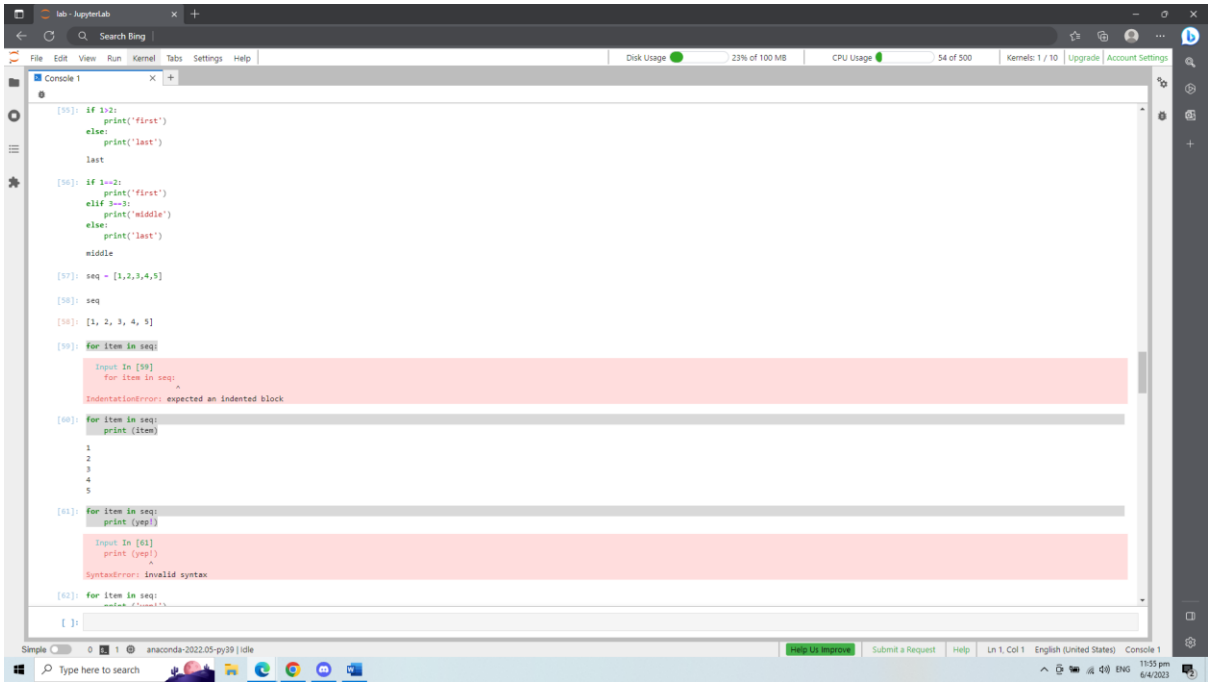
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Console 1
[55]: if 1>2:
print('first')
else:
print('last')
last
[56]: if 1==2:
print('first')
elif 3==3:
print('middle')
else:
print('last')
middle
[57]: seq = [1,2,3,4,5]
[58]: seq
[58]: [1, 2, 3, 4, 5]
[59]: for item in seq:
Input In [59]
for item in seq:
^
IndentationError: expected an indented block
[60]: for item in seq:
print (item)
1
2
3
4
5
[61]: for item in seq:
print (yep!)
Input In [61]
print (yep!)
^
SyntaxError: invalid syntax
[62]: for item in seq:
[ ]:
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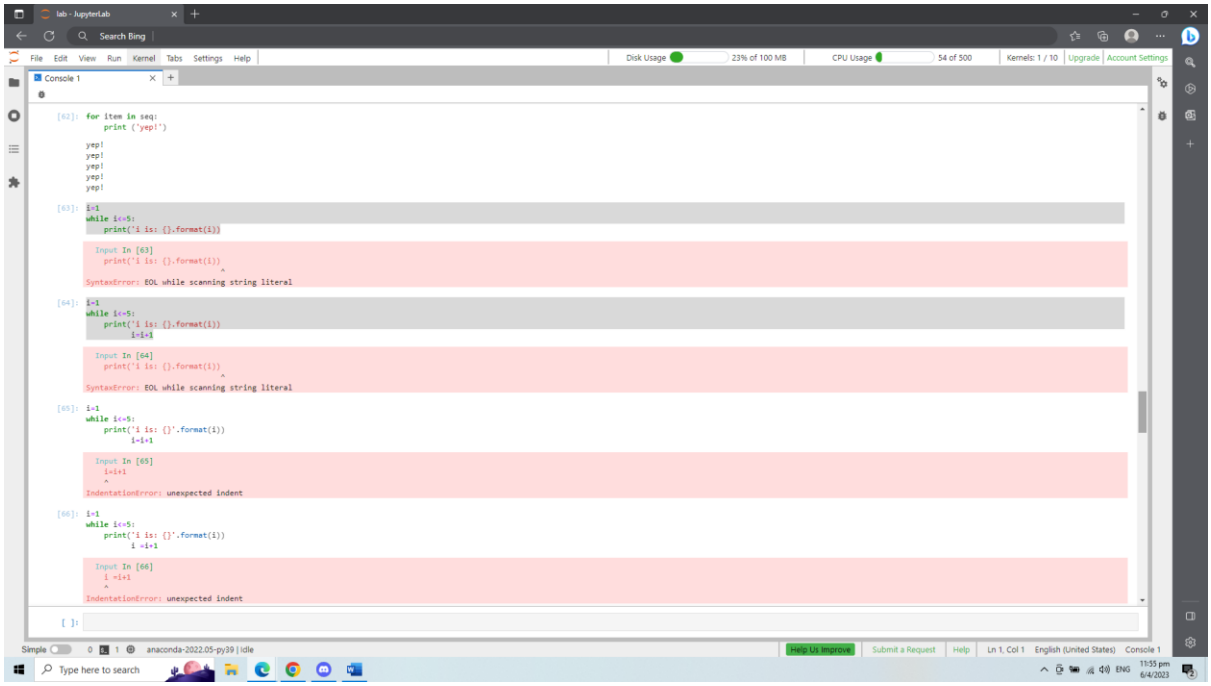
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Console 1
[62]: for item in seq:
print ('yep!')
yep!
yep!
yep!
yep!
yep!
[63]: i=1
while i<=5:
print('i is: {}.format(i))
Input In [63]
print('i is: {}.format(i))
^
SyntaxError: EOL while scanning string literal
[64]: i=1
while i<=5:
print('i is: {}.format(i))
i=i+1
Input In [64]
print('i is: {}.format(i))
^
SyntaxError: EOL while scanning string literal
[65]: i=1
while i<=5:
print('i is: {}'.format(i))
i=i+1
Input In [65]
i=i+1
^
IndentationError: unexpected indent
[66]: i=1
while i<=5:
print('i is: {}'.format(i))
i =i+1
Input In [66]
i =i+1
^
IndentationError: unexpected indent
[ ]:
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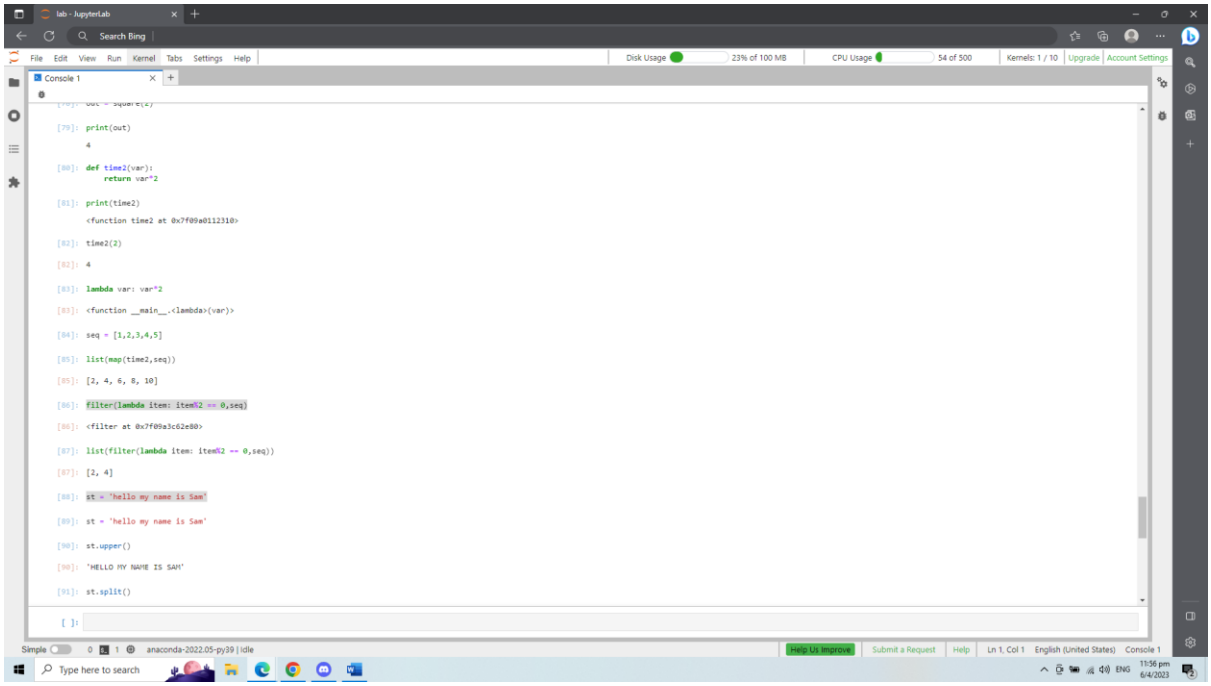
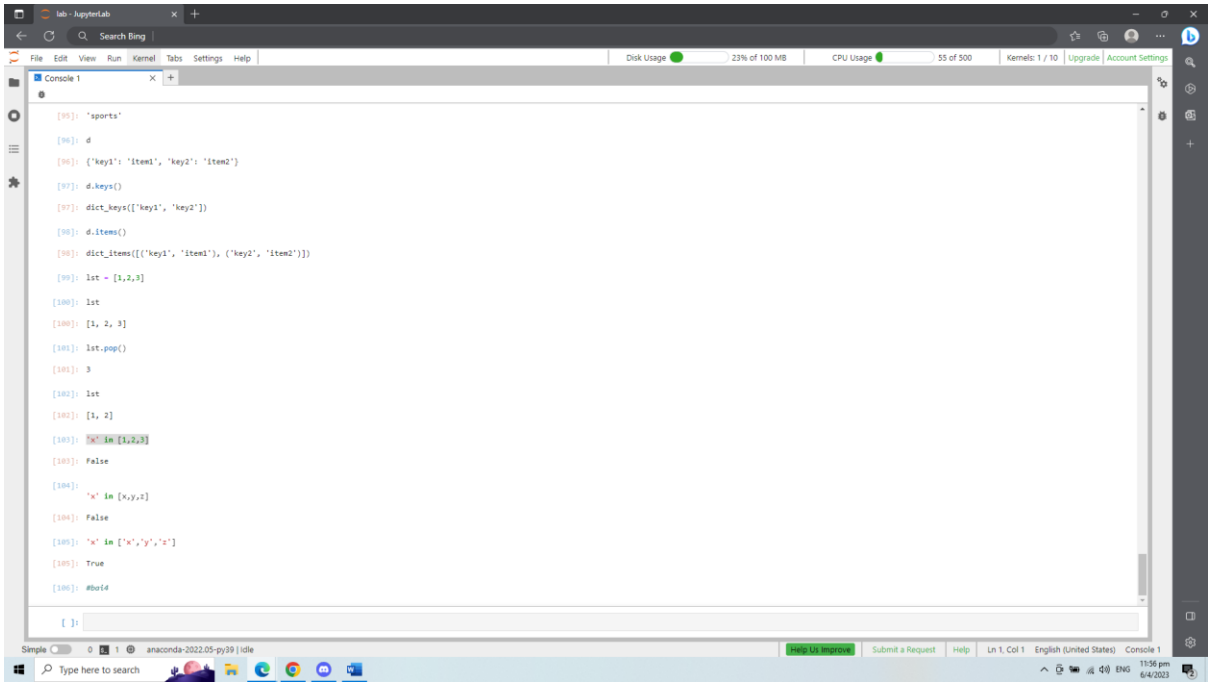
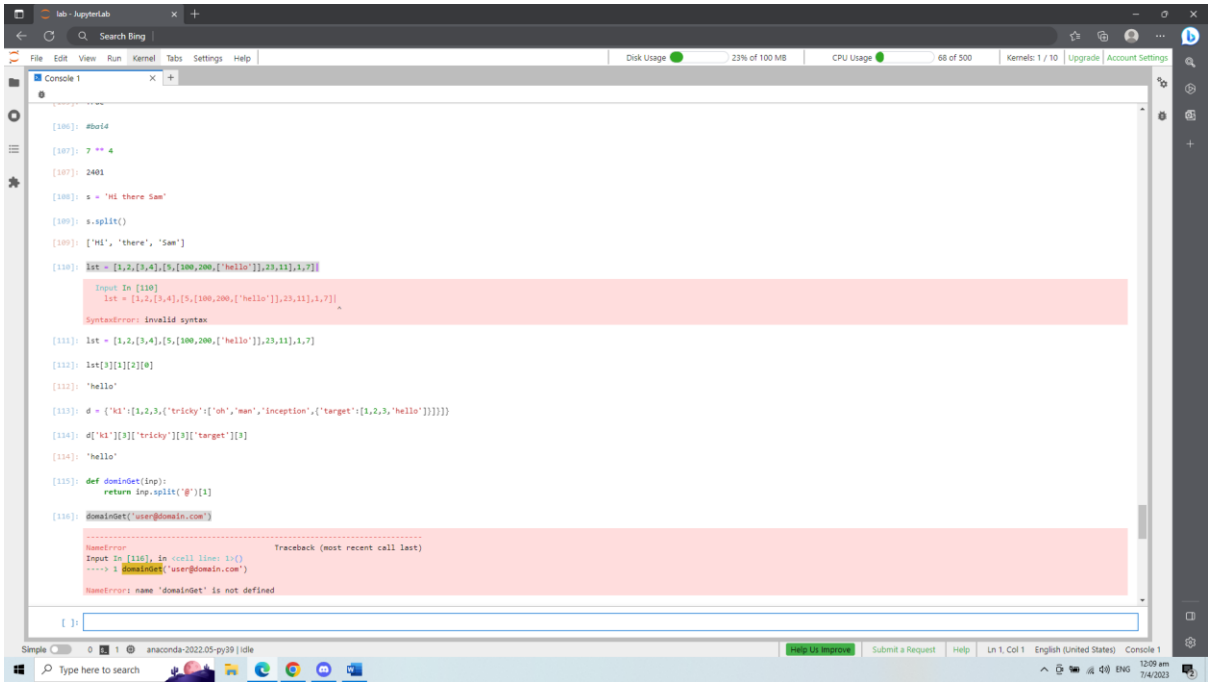


```
[79]: print(out)
      4

[80]: def time2(var):
          return var*2

[81]: print(time2)
      <function time2 at 0x7f09a0112310>

[82]: time2(2)

[82]: 4

[83]: lambda var: var*2

[83]: <function __main__.<lambda>(var)>

[84]: seq = [1,2,3,4,5]

[85]: list(map(time2,seq))

[85]: [2, 4, 6, 8, 10]

[86]: filter(lambda item: item%2 == 0,seq)

[86]: <filter at 0x7f09a3c62e80>

[87]: list(filter(lambda item: item%2 == 0,seq))

[87]: [2, 4]

[88]: st = 'hello my name is Sam'

[89]: st = 'hello my name is Sam'

[90]: st.upper()

[90]: 'HELLO MY NAME IS SAM'

[91]: st.split()
```



```
[95]: 'sports'

[96]: d

[96]: {'key1': 'item1', 'key2': 'item2'}

[97]: d.keys()

[97]: dict_keys(['key1', 'key2'])

[98]: d.items()

[98]: dict_items([('key1', 'item1'), ('key2', 'item2')])

[99]: lst = [1,2,3]

[100]: lst

[100]: [1, 2, 3]

[101]: lst.pop()

[101]: 3

[102]: lst

[102]: [1, 2]

[103]: 'x' in [1,2,3]

[103]: False

[104]:
       'x' in [x,y,z]

[104]: False

[105]: 'x' in ['x','y','z']

[105]: True

[106]: #bold
```

Exercise4: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Console 1
[106]: #bal4
[107]: 7 ** 4
[107]: 2401
[108]: s = 'Hi there Sam'
[109]: s.split()
[109]: ['Hi', 'there', 'Sam']
[110]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
Input In [110]
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
SyntaxError: invalid syntax
[111]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
[112]: lst[3][1][2][0]
[112]: 'hello'
[113]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
[114]: d['k1'][3]['tricky'][3]['target'][3]
[114]: 'hello'
[115]: def domainGet(inp):
return inp.split('@')[1]
[116]: domainGet('user@domain.com')
NameError Traceback (most recent call last)
Input In [116], in <cell line: 1>()
----> 1 domainGet('user@domain.com')
NameError: name 'domainGet' is not defined
[ ]:
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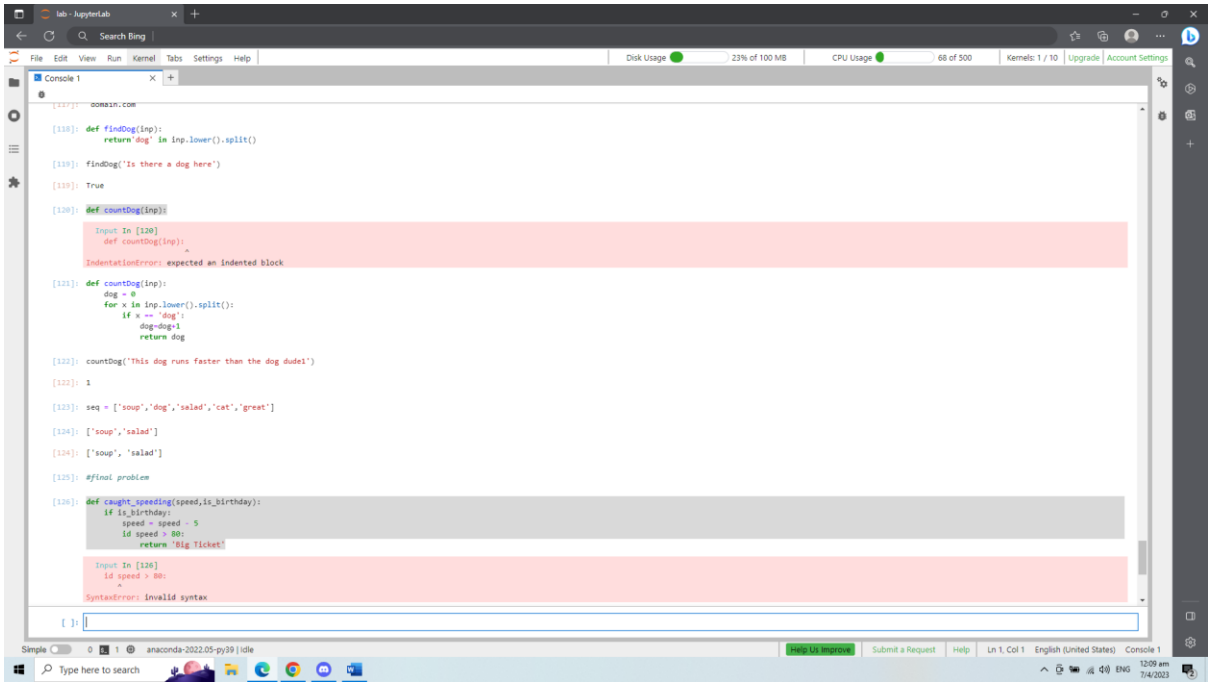
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File Edit View Run Kernel Tabs Settings Help
Disk Usage 23% of 100 MB
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Account Settings
Console 1
[117]: domain.com
[118]: def findDog(inp):
return 'dog' in inp.lower().split()
[119]: findDog('Is there a dog here')
[119]: True
[120]: def countDog(inp):
Input In [120]
def countDog(inp):
IndentationError: expected an indented block
[121]: def countDog(inp):
dog = 0
for x in inp.lower().split():
if x == 'dog':
dog=dog+1
return dog
[122]: countDog('This dog runs faster than the dog dude1')
[122]: 1
[123]: seq = ['soup','dog','salad','cat','great']
[124]: ['soup','salad']
[124]: ['soup', 'salad']
[125]: #final problem
[126]: def caught_speeding(speed,is_birthday):
if is_birthday:
speed = speed - 5
id speed > 80:
return 'Big Ticket'
Input In [126]
id speed > 80:
SyntaxError: invalid syntax
[ ]:
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Final problem