

Torrodjae Somerville

CTEC: 298-101 Symbolic Computation Using Big Data

Dr. Bemley

11/1/2025 : These are the proofs of my .ipynb files working in Jupyter Notebook with the correct tutorials

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Code JupyterLab Python [conda env:base] * Anaconda Toolbox

```
[1]: # Conditions Tutorial Completion
number = 17
second_number = 0
first_array = [1,2,3]
second_array = [1,2]
name = "Torrodjae Somerville"

if number > 15:
    print("1")
if first_array:
    print("2")
if len(second_array) == 2:
    print("3")
if len(first_array) + len(second_array) == 5:
    print("4")
if first_array and first_array[0] == 1:
    print("5")
if not second_number:
    print("6")
print(name)

1
2
3
4
5
6
Torrodjae Somerville

[2]: #Loops Tutorial Completion
name = "Torrodjae Somerville"
```

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Code JupyterLab Python [conda env:base] * Anaconda Toolbox

```
[2]: #Loops Tutorial Completion
name = "Torrodjae Somerville"
numbers = [
    951, 402, 984, 651, 360, 69, 408, 319, 601, 485, 980, 507, 725, 547, 544,
    615, 83, 165, 141, 501, 263, 617, 865, 575, 219, 390, 984, 592, 236, 105, 942, 941,
    386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345,
    399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687, 217,
    815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717,
    958, 609, 842, 451, 688, 753, 854, 685, 93, 857, 440, 380, 126, 721, 328, 753, 470,
    743, 527
]

# your code goes here
for number in numbers:
    if number == 237:
        break
    if number % 2 == 1:
        continue
    print(number)
    print(name)

402
Torrodjae Somerville
984
Torrodjae Somerville
360
Torrodjae Somerville
408
Torrodjae Somerville
980
Torrodjae Somerville
544
Torrodjae Somerville
390
Torrodjae Somerville
984
```

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Code

[3]: #Functions Tutorial Completion
name= "Torrodjae Somerville"
def list_benefits():
 return "More organized code", "More readable code", "Easier code reuse", "Allowing programmers to share and connect code together"

Modify this function to concatenate to each benefit - " is a benefit of functions!"
def build_sentence(benefit):
 return "%s is a benefit of functions!" % benefit

def name_the_benefits_of_functions():
 list_of_benefits = list_benefits()
 for benefit in list_of_benefits:
 print(build_sentence(benefit))

name_the_benefits_of_functions()
print(name)

More organized code is a benefit of functions!
More readable code is a benefit of functions!
Easier code reuse is a benefit of functions!
Allowing programmers to share and connect code together is a benefit of functions!
Torrodjae Somerville

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Code

[4]: # Classes and Object Tutorial Completion
name="Torrodjae"
class Vehicle:
 name = ""
 kind = "car"
 color = ""
 value = 100.00
 def description(self):
 desc_str = "%s is a %s %s worth \$%.2f." % (self.name, self.color, self.kind, self.value)
 return desc_str
 # your code goes here
car1 = Vehicle()
car1.name = "Fer"
car1.color = "red"
car1.kind = "convertible"
car1.value = 60000.00

car2 = Vehicle()
car2.name = "Jump"
car2.color = "blue"
car2.kind = "van"
car2.value = 10000.00
 # test code
print(car1.description())
print(car2.description())
print(name)

Fer is a red convertible worth \$60000.00.
Jump is a blue van worth \$10000.00.
Torrodjae

[5]: #Dictionaries Tutorial Completion

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JupyterLab Python [conda env:base] * Anaconda Toolbox

```
[5]: #Dictionaries Tutorial Completion
name="Torrodjae Somerville"
phonebook = {
    "John" : 938477566,
    "Jack" : 938377264,
    "Jill" : 947662781
}
# your code goes here
phonebook["Jake"] = 938273443
del phonebook["Jill"]
# testing code
if "Jake" in phonebook:
    print("Jake is listed in the phonebook.")

if "Jill" not in phonebook:
    print("Jill is not listed in the phonebook.")
print(name)
```

Jake is listed in the phonebook.
Jill is not listed in the phonebook.
Torrodjae Somerville

[6]: #Modules Packages Tutorial Completion

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JupyterLab Python [conda env:base] * Anaconda Toolbox

```
if "Jake" in phonebook:
    print("Jake is listed in the phonebook.")

if "Jill" not in phonebook:
    print("Jill is not listed in the phonebook.")
print(name)
```

Jake is listed in the phonebook.
Jill is not listed in the phonebook.
Torrodjae Somerville

[6]: #Modules Packages Tutorial Completion

```
import re
name="Torrodjae Somerville"
# Your code goes here
find_members = []
for member in dir(re):
    if "find" in member:
        find_members.append(member)

print(sorted(find_members))
print(name)
```

['findall', 'finditer']
Torrodjae Somerville

[]:

