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# Deep Learning Bytewise Fellow

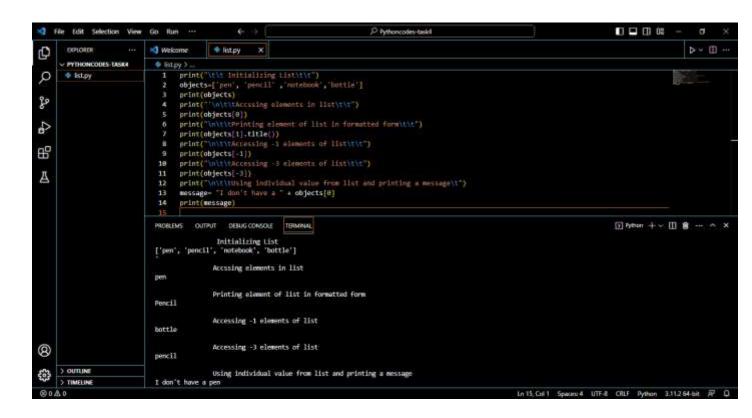
# TASK # 04

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### Lists

• Creating, Accessing elements in List

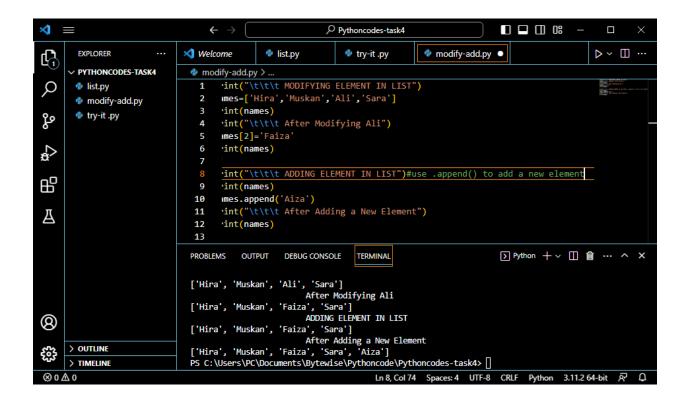


TRY IT YOURSELF 1 SOLUTION

```
1 File Edit Selection View Go Run
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                                                                                                                                                                                                                                                                                                      田田田田田
                                                         Welcome
                                                                                         · list.py
                                                                                                                                                                                                                                                                                                                                          D - III -
                                                                                                                        try-it.py ×
              PYRHO_ [ ET U S
                                                           w try-d .py .)
                                                                     id.gy 2-
print("\t\t\try it \text{Vorself 3-1"})
friends \text{names=['zaleab','miza', 'mystha', 'maryam', 'moor']}
print("First Element: ",friends \text{names[0].title()})
print("first Element: ",friends \text{names[2].title()})
print("first Element: ",friends \text{names[2].title()})
print("fourth Element: ",friends \text{names[2].title()})
print("First Element: ",friends \text{names[2].title()})
 0
             kitpy
             o try it ay
go
0
出
                                                                      print("\t\t\try It Yourself 3-3")
message 'wl ' +friends_mames(0].title() + '| How are you'
print(message)
A
                                                                      message-'H1' +frSends_mames[1].title() + '! How are you?
print(message)
                                                                                                   +friends names[1].title() + 1 How are you)
                                                                      message 'ki' *friends_names[#].title() + '| How are you?'
print(message)
message 'm' *friends_names[#].title() + '| How are you?'
print(message)
                                                                      print("NEWATRY It Yourself 3-3")
train("Schien Armon", "Blue Train", "Bullet Train", "TGV", "Ordent Express")
sessings ="I abuin like to men '* train[2]
print (message)
                                                                      message-train[0]+ ' is the fastest train in world'
print(message)
                                                                      print(message)
message train(:1] *' is a great public carrier '
print(message)
message train(-2) *' stands for train à grande citusan
print(message)
print("tititiny It Yourself | Completedin")
8
                                                            29
30
           > TIMILINE
                                                                                                                                                                                                                                                    In 12 Col 1 Spaces 4 UTF-8 CREF Petron 3.113-64-ber #P O.
```

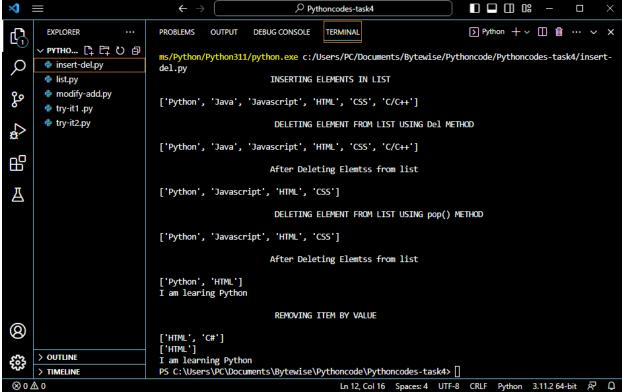
## **Changing, Adding and Removing Elements**

• Modifying and Adding Element

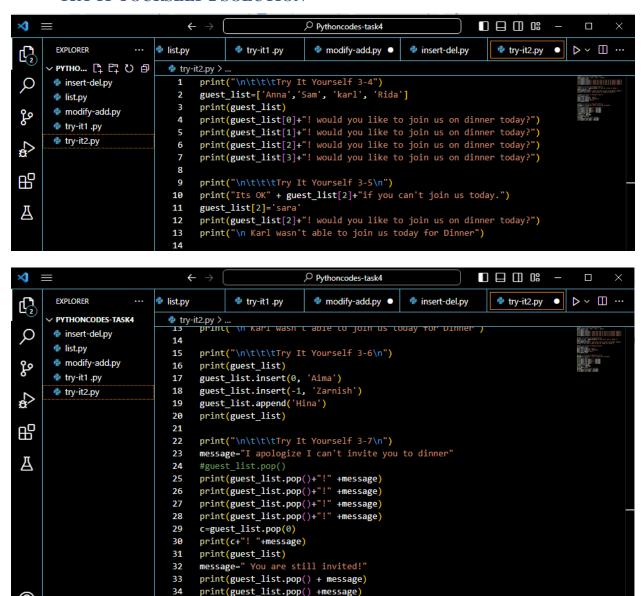


#### • Inserting and Deleting Elements





#### TRY IT YOURSELF 2 SOLUTION



```
Try It Yourself 3-4

['Anna', 'Sam', 'karl', 'Rida']
Annal would you like to join us on dinner today?
Karl's would you like to join us on dinner today?
Karl's would you like to join us on dinner today?
Karl's would you like to join us on dinner today?
Ridal would you like to join us on dinner today?

Try It Yourself 3-5

Its Otkarlif you can't join us today.

Sara' would you like to join us today for Dinner

Try It Yourself 3-6

['Anna', 'Sam', 'sara', 'Rida']

['Aina', 'Anna', 'Sam', 'sara', 'Zarnish', 'Rida', 'Hina']

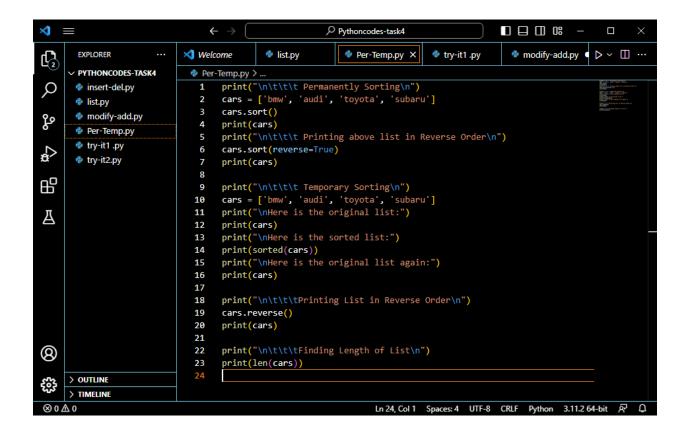
Try It Yourself 3-7

Hinall apologize I can't invite you to dinner
Ridall apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Ainal I apologize I can't invite you to dinner
Saral' Apologize I can't invite you to dinner
C'Anna', 'Sam']
Sam You are still invited!

PS C: Ween's NC Woosenest blytesise Nythoncode Nythoncode Sythoncode Sythoncode
```

### **Organizing In List**

Permanent & Temporary Sorting – Length of list



```
Permanently Sorting

['audi', 'bma', 'subaru', 'toyota']

Printing above list in Neverse Order

['toyota', 'subaru', 'bma', 'audi']

Temporary Sorting

Here is the original list:
['bma', 'audi', 'toyota', 'subaru']

Nere is the sorted list:
['audi', 'toyota', 'subaru']

Nere is the original list again:
['bma', 'sudi', 'toyota', 'subaru']

Printing List in Neverse Order

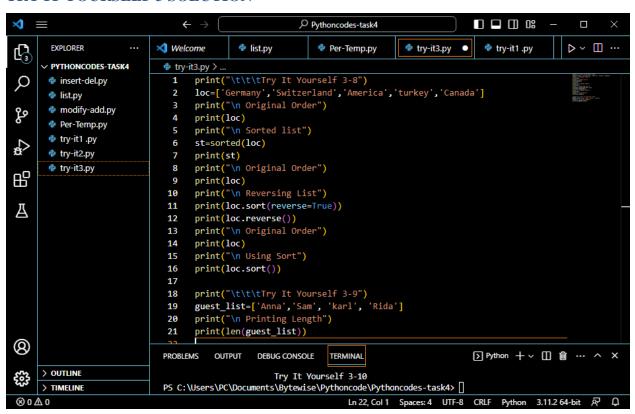
['subaru', 'toyota', 'audi', 'toyota', 'subaru']

Finding Length of List

4

PS C:\Users\PC\Documents\Nytexise\Pythoncode\Pythoncodes-task4>[
```

#### TRY IT YOURSELF 3 SOLUTION



```
× =
                                                                                                     \leftarrow \rightarrow
                                                               Pythoncodes-task4
                                                                                                                            EXPLORER
                                 PROBLEMS
                                           OUTPUT
                                                     DEBUG CONSOLE

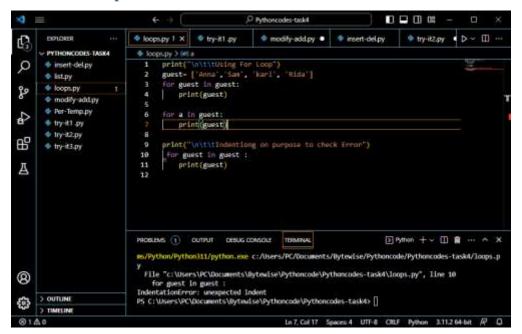
    ∑ Python + ∨ □ □ □ ··· ∨ ×
C<sub>2</sub>

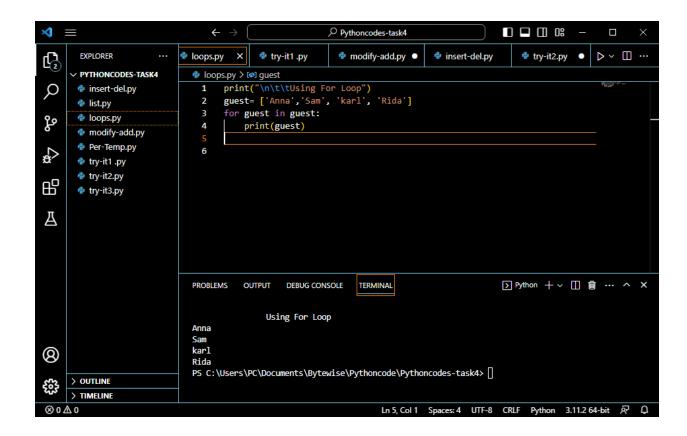
✓ PYTHONCODES-TASK4

                                 NameError: name 'sort' is not defined. Did you mean: 'sorted'?
       insert-del.py
Q
                                 PS C:\Users\PC\Documents\Bytewise\Pythoncode\Pythoncodes-task4> & C:/Users/PC/AppData/Local/Pro
                                 ms/Python/Python311/python.exe c:/Users/PC/Documents/Bytewise/Pythoncode/Pythoncodes-task4/try-it3
       list.py
ည
       modify-add.py
                                                         Try It Yourself 3-8
       Per-Temp.py
       try-it1 .py
                                 Original Order
                                 ['Germany', 'Switzerland', 'America', 'turkey', 'Canada']
        try-it2.py
       try-it3.py
留
                                 ['America', 'Canada', 'Germany', 'Switzerland', 'turkey']
                                 Original Order
Д
                                 ['Germany', 'Switzerland', 'America', 'turkey', 'Canada']
                                 Reversing List
                                 None
                                 None
                                 Original Order
                                 ['America', 'Canada', 'Germany', 'Switzerland', 'turkey']
                                 Using Sort
                                ['America', 'Canada', 'Germany', 'Switzerland', 'turkey']
Try It Yourself 3-9
(2)
                                 Printing Length
      > OUTLINE
     > TIMELINE
                                 PS C:\Users\PC\Documents\Bytewise\Pythoncode\Pythoncodes-task4>\ []
⊗ 0 ∆ 0
                                                                         Ln 18, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.2 64-bit 🔊
```

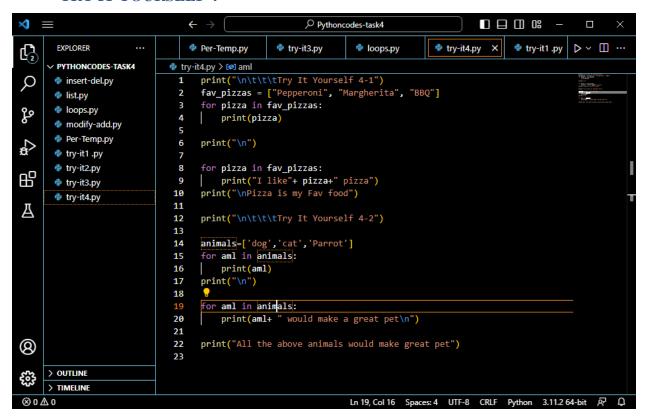
### Loops

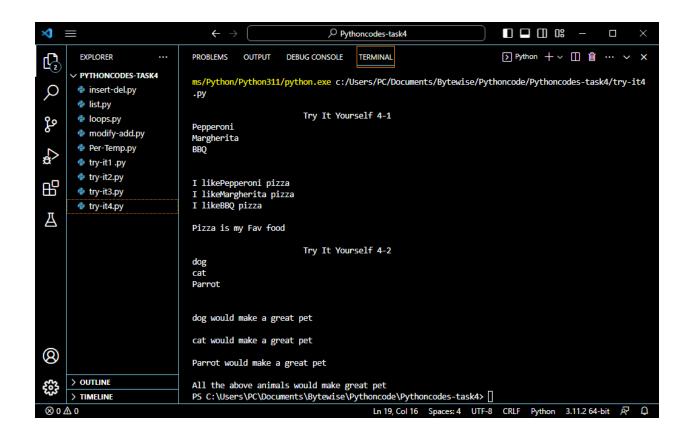
• For Loop and Indentation Error





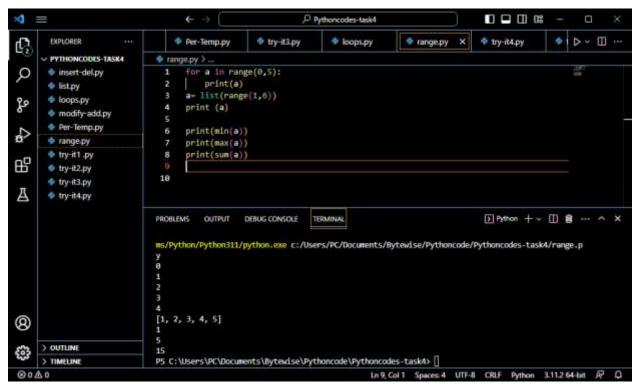
#### TRY IT YOURSELF 4





#### **Numerical List**

• Range(), min(), max(), sum() Function



#### **TRY IT YOURSELF 5**

```
File Edit Selection View Go
                                                                                                                                                                                            II II III III
                                                                                                         * task-4py • | • ny-it5py × | • sking.py 1 • | • modify-add.py • | • insert-delay | D ∨ III ···
         CHPLURIE

    Fer-Temp.py

◆ loops.py

                                                                                    · range.py
G
        PYTHONCODES-TASKA

♦ try-it5-py >

                                             0
        insert-delpy
        · kit.py
        • коорыру
go
         modify aid py
                                             print("\t\t\t\large(i,18)):
    for a in list(range(i,18)):
        print(a)
        print(sim(a))
        Per-Temp.py
0
        · rangicpy
        · dicingay
出
        · tak-tay
                                             print("Withthey It Yourself 4-5")
for a in range(1,71,2):
    print(a)
        · try-it1 .py
A
        # try-it2.py
                                       12
         try it1.py
        · try-m4.py
                                             grint("thirthy it Yourself 4-6")
mul =[number for number in range(3,21,1)]
for number in mul:

 try-itS.py

    hpleav

                                             print(a)
                                       19
                                             for cube in cube:
print(cube)
                                             print("\t\t\try It Voueself 4.8")
cube =[number**3 for number in range((1,31))]
                                       25
0
                                                                                                                                                                                           (E) Pythan + + (I) ■ ... ~ X
                                     PROBLEMS () OUTPUT DEBUG CONSOLE TERMINAL
                                     \label{thm:posterior} TypeError: `tuple' object does not support Item assignment PS C: `Ubsers'\PC'\Documents'\Sytexdse\Pythoncode\Pythoncodes-taskt\settimes []
       > continue
0
       > TIMILINE
```

#### • Tuples

