1. What’s a nested list?
   1. Is a list inside another list.
2. Can a list store both integers and strings in it?
   1. Yes.
3. Exercise 1

Type: list (range (10, 0, -2))

* Python will not response to this. Vì đây k phải câu lệnh action.
* Nếu Start < Stop and Step <0 🡪

1. Exercise 2
   1. The code did not create any turtle? (Tried but no turtle appears.) Is this supposed to produce 1 turtle?
   2. Change the color of alex also change the color of tess. (?) Because alex is tess.

# Turtle

|  |  |
| --- | --- |
| 1. | 2. |
| from turtle import \*  colors = ['red', 'blue', 'brown', 'yellow', 'grey']  for i in range (3,8):  for n in range(i):  color (colors[i-3])  forward (100)  left (360/i) | from turtle import \*  colors = ['red', 'blue', 'brown', 'yellow', 'grey']  for i in range (5):  color (colors[i])  begin\_fill()  for n in range (2):  forward (50)  left (90)  forward (100)  left (90)  forward (50)  end\_fill() |

|  |  |
| --- | --- |
| *6iporAnbT.jpg* | ***Serious exercises*** |

1. Finish CRUD exercise in class, simulate a clothes shop:

import time

clothes = ["T-Shirt", "Sweater", "Jeans"]

while True:

action = input ( "Welcome to our shop, what do you want (C, R, U, D)?")

print ("|==============================================|")

print ("|Copy: 'C' |Read: 'R' |Update: 'U' |Delete: 'D'|")

print ("|==============================================|")

action = action.upper()

if action == "C":

item = (input("Enter new item:")).title()

clothes.append(item)

print ("Our items:",clothes)

elif action == "R":

print ("Our items:",clothes)

elif action == "U":

position = int(input("Update position:"))

if position > (len (clothes)-1):

print ("There's no item number", position)

print()

continue

item = (input("New item:")).title()

clothes[position] = item

print ("Our items:",clothes)

else:

position = int(input("Delete position:"))

if position > (len (clothes) -1):

print ("There's no item number", position)

print()

continue

del clothes[position]

print ("Our items:",clothes)

print ()

time.sleep(3)

1. Sheep
   1. Create a list to represent the sizes of your flock, using list, and print all of your flock size, expected screen output:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

* 1. Write a program to search for the biggest sheep in your list:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

* 1. Print out your ship size after shearing the biggest one:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

print()

p = sizes.index(max(sizes))

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

print ()

sizes[p] = 8

print ("After shearing, here is my flock:", sizes)

* 1. Print out the size after 1 month:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

print()

p = sizes.index(max(sizes))

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

print ()

sizes[p] = 8

print ("After shearing, here is my flock:", sizes)

print ()

def increase\_size (sizes):

""" Increase each sheep's size by 50"""

for (idx, val) in enumerate (sizes):

sizes[idx] = val + 50

print ("One month has passed, now here is my flock:")

increase\_size (sizes)

print (sizes)

* 1. Do the same as 2.4 for 4 months:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

print()

def increase\_size (sizes):

""" Increase each sheep's size by 50"""

for (idx, val) in enumerate (sizes):

sizes[idx] = val + 50

for i in range (4):

print ("Month", i+1, ":")

print ("One month has passed, now here is my flock:")

increase\_size (sizes)

print (sizes)

p = sizes.index(max(sizes))

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

print ()

sizes[p] = 8

print ("After shearing, here is my flock:", sizes)

print ()

* 1. Program that will calculate the total size of the sheep flock and the total value:

sizes = [5, 7, 300, 90, 24, 50, 75]

print ( "Hello, my name is Duong and these are my sheep sizes:")

print (sizes)

print()

p = sizes.index(max(sizes))

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

print ()

sizes[p] = 8

print ("After shearing, here is my flock:", sizes)

print ()

def increase\_size (sizes):

""" Increase each sheep's size by 50"""

for (idx, val) in enumerate (sizes):

sizes[idx] = val + 50

for i in range (3):

print ("Month", i+1, ":")

print ("One month has passed, now here is my flock:")

increase\_size (sizes)

print (sizes)

if i +1 == 3:

break

p = sizes.index(max(sizes))

print("Now my biggest sheep has size",max(sizes),". Let's shear it!")

print ()

sizes[p] = 8

print ("After shearing, here is my flock:", sizes)

print ()

s = sum (sizes)

print ("My flock has size in total:", s)

print ("I would get", s, " \* $2 = $", s \* 2)