KEY_Practice05_Indexing

May 28, 2020

1 Practice with indexing!

Remember: * Use square brackets to index ([]) * You can index lists and strings * Python starts counting at zero!

Let's start with our list of pets:

[1]:
```
# command Python to make a list of pets. Store it in pets
pets = ['dog','cat','turtle','hamster','goldfish','snake','rabbit']

# command Python to print pets
print(pets)
```

```
['dog', 'cat', 'turtle', 'hamster', 'goldfish', 'snake', 'rabbit']
```

Use indexing to print out cat:

[2]:
```
# command Python to print cat by indexing the pets list
print(pets[1])
```

```
cat
```

Print the 5th element in your list. What is it? Be sure to check your answer!

[3]:
```
# command Python to print the 5th element in pets
pets[4]
```

[3]:
```
'goldfish'
```

Get turtle, hamster, and goldfish from pets using indexing and store it as pets_subset:

[4]:
```
# command Python to store turtle, hamster, and goldfish from pets into␣
↪pets_subset
pets_subset = pets[2:5]
# command Python to print pets_subset
print(pets_subset)
```

```
['turtle', 'hamster', 'goldfish']
```

How can you make a list of the first and third elements of pets?

[5]:
```
# make a list of the first and third elements of pets
[pets[0], pets[2]]
```

[5]:
```
['dog', 'turtle']
```

Let's get the last element of pets (rabbit) and store it as my_pet. Then print it out to make sure you did it correctly!

[6]:
```
# command Python to store the last element of pets in my_pet
my_pet = pets[-1]
# command Python to print my_pet
print(my_pet)
```

```
rabbit
```

Print the first three letters of my_pet:

[7]:
```
# command Python to print the first three letters of my_pet
print(my_pet[0:3])
```

```
rab
```

Challenge: 1. Create a list called family and populate it with names of your family 2. Create a list called friends and populate it with names of your friends 3. Add your friends list and your family list together and store it in the variable people_i_know 4. Find the length of people_i_know 5. Print out the first and last element of people_i_know 6. Pick one person from your list who is your hero. Get that person's name from the list using indexing and store it as my_hero 7. Find the length of my_hero 8. Get the first 2 letters of my_hero 9. Get the last 2 letters of my_hero

[ ]:
```

```