1. Create a list called years\_list, starting with the year of your birth, and each year thereafter until the year of your fifth birthday. For example, if you were born in 1980. the list would be

**Answers:**

years\_list = [1980, 1981, 1982, 1983, 1984, 1985].

years\_list = [2000, 2001, 2002, 2003, 2004, 2005]

print(years\_list)

2. In which year in years\_list was your third birthday? Remember, you were 0 years of age for your first year.

3.In the years list, which year were you the oldest?

4. Make a list called things with these three strings as elements: "mozzarella", "cinderella", "salmonella".

**Answers:**

things **=** ["mozzarella", "cinderella", "salmonella"]

print(things)

Output:

['mozzarella', 'cinderella', 'salmonella']

5. Capitalize the element in things that refers to a person and then print the list. Did it change the element in the list?

**Answers:**

things **=** ["mozzarella", "cinderella", "salmonella"]

things[1] **=** things[1].capitalize()

print(things)

​

**Output:**

['mozzarella', 'Cinderella', 'salmonella']

6. Make a surprise list with the elements "Groucho," "Chico," and "Harpo."

**Answers:**

things = ["mozzarella", "cinderella", "salmonella"]

surprise = [elem.capitalize() + "!" for elem in things]

print(surprise)

['Mozzarella!', 'Cinderella!', 'Salmonella!']

7. Lowercase the last element of the surprise list, reverse it, and then capitalize it.

**Answers:**

things = ["mozzarella", "cinderella", "salmonella"]

surprise = [elem.capitalize() + "!" for elem in things]

last\_element = surprise[-1].lower()[::-1].capitalize()

print(last\_element)

**Output:**

!allenomlas

8. Make an English-to-French dictionary called e2f and print it. Here are your starter words: dog is chien, cat is chat, and walrus is morse.

**Answers:**

e2f **=** {

'dog': 'chien',

'cat': 'chat',

'walrus': 'morse'

}

​

print(e2f)

​

Output:

{'dog': 'chien', 'cat': 'chat', 'walrus': 'morse'}

9. Write the French word for walrus in your three-word dictionary e2f.

**Answers:**

e2f = {

'dog': 'chien',

'cat': 'chat',

'walrus': 'morse'

}

f2e = {value: key for key, value in e2f.items()}

print(f2e['chien'])

**Output:**

dog

10. Make a French-to-English dictionary called f2e from e2f. Use the items method.

11. Print the English version of the French word chien using f2e.

**Answers:**

e2f = {

'dog': 'chien',

'cat': 'chat',

'walrus': 'morse'

}

f2e = {value: key for key, value in e2f.items()}

print(f2e['chien'])

**Output:**

dog

12. Make and print a set of English words from the keys in e2f.

**Answers:**

e2f = {

'dog': 'chien',

'cat': 'chat',

'walrus': 'morse'

}

english\_words = set(e2f.keys())

print(english\_words)

**Output:**

{'cat', 'dog', 'walrus'}

13. Make a multilevel dictionary called life. Use these strings for the topmost keys: 'animals', 'plants', and 'other'. Make the 'animals' key refer to another dictionary with the keys 'cats', 'octopi', and 'emus'. Make the 'cats' key refer to a list of strings with the values 'Henri', 'Grumpy', and 'Lucy'. Make all the other keys refer to empty dictionaries.

**Answers:**

life = {

'animals': {

'dog': 'chien',

'cat': 'chat'

},

'nature': {

'tree': 'arbre',

'flower': 'fleur'

}

}

top\_level\_keys = life.keys()

print(top\_level\_keys)

**Output:**

dict\_keys(['animals', 'nature'])

14. Print the top-level keys of life..

**Answers:**

life = {

'animals': {

'dog': 'chien',

'cat': 'chat'

},

'nature': {

'tree': 'arbre',

'flower': 'fleur'

}

}

animal\_keys = life['animals'].keys()

print(animal\_keys)

**Output:**

dict\_keys(['dog', 'cat'])

15. Print the keys for life['animals'].

life = {

'animals': {

'dog': 'chien',

'cat': 'chat'

},

'nature': {

'tree': 'arbre',

'flower': 'fleur'

}

}

animal\_keys = life['animals'].keys()

print(animal\_keys)

**Output:**

dict\_keys(['dog', 'cat'])

16. Print the values for life['animals']['cats']

life = {

'animals': {

'dog': 'chien',

'cat': 'chat'

},

'nature': {

'tree': 'arbre',

'flower': 'fleur'

}

}

cat\_value = life['animals']['cat']

print(cat\_value)

**Output:**

chat