

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 `years_list = [1980, 1981, 1982, 1983, 1984, 1985]`.

```
years_list = [1996, 1997, 1998, 1999, 2000, 2001]
```

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

```
1999
```

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

```
2001
```

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

```
["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?

- `name_list = ["mozzarella", "cinderella", "salmonella"]`
- `[i.capitalize() for i in name_list]`
- `>>> ['Mozzarella', 'Cinderella', 'Salmonella']`

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

- `surprise_list = ["Groucho", "Chico", "Harpo"]`

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

- `surprise_list[-1].lower()[::-1].capitalize()`
- `>>> 'Oprah'`

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.

- `e2f = {'dog': 'chien', 'cat': 'chat', 'walrus': 'morse'}`
- `print(e2f)`

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

- `e2f['walrus']`
- `>>> 'morse'`

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

- `f2e = {v: k for k, v in e2f.items()}`
- `f2e`
- `>>> {'chien': 'dog', 'chat': 'cat', 'morse': 'walrus'}`

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

- `f2e['chien']`
- `>>> 'dog'`

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

- `e2f.keys()` # These are all the English words in the e2f dictionary.
- `for word in e2f.keys():`  
    `print(word)`

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.

```
life = {'animal': {'cats': ['Henri', 'Grumpy', 'Lucy'], 'octopi': {}, 'emus': {}}, 'plants': {}, 'other': {}}
```

14. Print the top-level keys of life.

```
print(life.keys())
```

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

```
print(life['animal'].keys())
```

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

```
print(life['animal']['cats'])
```

# To print all the values one by one, use the below code.

```
for word in life['animal']['cats']:
```

```
    print(word)
```