

Solutions

1. `years_list = [1995, 1996, 1997, 1998, 1999, 2000]`
`seconds_per_hour = 60 * 60`
2. If I was born in the year 1995, then my third birthday would have been in the year 1998.
3. If we assume that the `years_list` starts with the year of my birth and goes up to my fifth birthday, then the year in which I was the oldest would be my fifth birthday year.
4. `things = ["mozzarella", "cinderella", "salmonella"]`
5. `things = ["mozzarella", "cinderella", "salmonella"]`
`things[1] = things[1].capitalize()`
`print(things)`
6. `surprise = ["Groucho", "Chico", "Harpo"]`

```
surprise = ["Groucho", "Chico", "Harpo"]
last_element = surprise[-1] # get the last element of the list
last_element = last_element.lower() # convert the string to lowercase
last_element = last_element[::-1] # reverse the string
last_element = last_element.capitalize() # capitalize the first letter of the string
surprise[-1] = last_element # assign the modified string back to the last element of the list
print(surprise)
```

7.

```
e2f = {
    "dog": "chien",
    "cat": "chat",
    "walrus": "morse"
```

```
}  
print(e2f)
```

8.

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

9.

```
e2f = {  
    "dog": "chien",  
    "cat": "chat",  
    "walrus": "morse"  
}  
french_word = e2f["walrus"]  
print(french_word)
```

10.

```
e2f = {  
    "dog": "chien",  
    "cat": "chat",  
    "walrus": "morse"  
}  
f2e = {french: english for english, french in e2f.items()}  
print(f2e)
```

11.

```
e2f = {  
    "dog": "chien",  
    "cat": "chat",
```

```
    "walrus": "morse"
}
f2e = {french: english for english, french in e2f.items()}
english_word = f2e["chien"]
print(english_word)
```

```
e2f = {
    "dog": "chien",
    "cat": "chat",
    "walrus": "morse"
}
english_words = set(e2f.keys())
print(english_words)
```

12.

```
e2f = {
    "dog": "chien",
    "cat": "chat",
    "walrus": "morse"
}
english_words = set(e2f.keys())
print(english_words)
```

13.

```
life = {
    "animals": {
        "cats": ["Henri", "Grumpy", "Lucy"],
        "octopi": {},
        "emus": {}
    },
}
```

```
    "plants": {},  
    "other": {}  
}
```

14.

```
life = {  
    "animals": {  
        "cats": ["Henri", "Grumpy", "Lucy"],  
        "octopi": {},  
        "emus": {}  
    },  
    "plants": {},  
    "other": {}  
}  
  
print(life.keys())
```

15.

```
life = {  
    "animals": {  
        "cats": ["Henri", "Grumpy", "Lucy"],  
        "octopi": {},  
        "emus": {}  
    },  
    "plants": {},  
    "other": {}  
}  
  
print(life['animals'].keys())
```