# 1. Create a list called years\_list, starting with your birth year until your fifth birthday

birth\_year = 1995 # Replace with your actual birth year

years\_list = [birth\_year + i for i in range(6)]

print("Years List:", years\_list)

# 2. In which year in years\_list was your third birthday?

third\_birthday\_year = years\_list[3]

print("Third Birthday Year:", third\_birthday\_year)

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

oldest\_year = years\_list[-1]

print("Oldest Year:", oldest\_year)

# 4. Make a list called things

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

print("Things List:", things)

# 5. Capitalize the element referring to a person

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

print("Modified Things List:", things)

# The change is permanent as strings are immutable

# 6. Make a surprise list

surprise = ["Groucho", "Chico", "Harpo"]

print("Surprise List:", surprise)

# 7. Lowercase the last element, reverse it, and capitalize it

transformed = surprise[-1].lower()[::-1].capitalize()

print("Transformed Last Element:", transformed)

# 8. Make an English-to-French dictionary

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

print("English to French Dictionary:", e2f)

# 9. Write the French word for walrus

print("French word for walrus:", e2f["walrus"])

# 10. Make a French-to-English dictionary using the items() method

f2e = {french: english for english, french in e2f.items()}

print("French to English Dictionary:", f2e)

# 11. Print the English version of the French word "chien"

print("English word for 'chien':", f2e["chien"])

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

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

print("Set of English Words:", english\_words)

# 13. Make a multilevel dictionary called life

life = {

"animals": {

"cats": ["Henri", "Grumpy", "Lucy"],

"octopi": {},

"emus": {}

},

"plants": {},

"other": {}

}

print("Life Dictionary:", life)

# 14. Print the top-level keys of life

print("Top-level keys in life:", life.keys())

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

print("Keys under 'animals':", life["animals"].keys())

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

print("Values under 'cats':", life["animals"]["cats"])