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].

# 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].

# declare a variable for year of birth, list variable to store years.

year\_of\_birth = int(input("Enter your year of birth in YYYY format"))

l1 = []

# Define a function year\_list to store years till fifth birthday.

def year\_list(yob):

l2 = []

for i in range(0,6):

print(int(yob + i))

l2.append(int(yob + i))

return l2

# call the function year\_list and store the return value in the list variable l1

l1 = year\_list(year\_of\_birth)

# Print the years list

print("Years list:",l1)

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

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

# Remember, you were 0 years of age for your first year.

# declare a variable for year of birth, list variable to store years.

year\_of\_birth = int(input("Enter your year of birth in YYYY format"))

l1 = []

# Define a function year\_list to store years till fifth birthday.

def year\_list(yob):

l2 = []

for i in range(0,6):

l2.append(int(yob + i))

return l2

# call the function year\_list and store the return value in the list variable l1

l1 = year\_list(year\_of\_birth)

# print year which was your third birthday

print(l1[3],"was your third birthday")

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

# In the years list, which year were you the oldest

# declare a variable for year of birth, list variable to store years.

year\_of\_birth = int(input("Enter your year of birth in YYYY format"))

l1 = []

# Define a function year\_list to store years till fifth birthday.

def year\_list(yob):

l2 = []

for i in range(0,6):

l2.append(int(yob + i))

return l2

# call the function year\_list and store the return value in the list variable l1

l1 = year\_list(year\_of\_birth)

# In the years list, print the year when were you the oldest

print(l1[-1],"year is the oldest in the list of years")

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

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

# Declare a list variable by name 'things'

# initialize the list with these three strings as elements: "mozzarella", "cinderella", "salmonella".

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

# print the list

print(things)

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

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

# Declare a list variable by name 'things'

# initialize the list with these three strings as elements: "mozzarella", "cinderella", "salmonella".

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

# print the list

print(things)

# Capitalize the element in things that refers to a person and then print the list.

things[1].upper()

# Check if it changes the element in the list

print(things) # It does not change the element in the list

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

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

# Declare a list l1 with the given elements

l1 = ["Groucho", "Chico","Harpo."]

# print the list to check if elements are added

print(l1)

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

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

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

# Declare a list l1 with the given elements

l1 = ["Groucho", "Chico","Harpo."]

# lowercase the last element of the list

l1[-1] = l1[-1].lower()

# print the list

print(l1)

# reverse it

l1.reverse()

# print the new list

print(l1)

# Capitalize it

for i in range(len(l1)):

l1[i] = l1[i].upper()

# print the new list

print(l1)

1. 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.

# 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.

# create a dictionary variable e2f with the values given

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

# print the dictionary

print(e2f)

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

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

# create a dictionary variable e2f with the values given

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

# print the e2f dictionary

print(e2f)

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

print(e2f['walrus'])

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

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

# create a dictionary variable e2f with the values given

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

# print the dictionary

print(e2f)

# Create a new French to english dictionary called f2e.

# use items method to store keys as values and values as keys from e2f dict variable

f2e = dict([(value,key) for key, value in e2f.items()])

# print the f2e dictionary

print(f2e)

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

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

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

# create a dictionary variable e2f with the values given

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

# print the dictionary

print(e2f)

# Create a new French to english dictionary called f2e.

# use items method to store keys as values and values as keys from e2f dict variable

f2e = dict([(value,key) for key, value in e2f.items()])

# print the f2e dictionary

print(f2e)

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

print(f2e['chien'])

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

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

# create a dictionary variable e2f with the values given

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

# print the e2f dictionary

print(e2f)

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

s = set(e2f.keys())

print(s)

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.

# 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.

# Declare a dictionary called life

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

# Print the dictionary object, life.

print(life)

14. Print the top-level keys of life.

# 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.

# Declare a dictionary called life

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

# Print the top-level keys of life.

print(life.keys())

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

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

# Declare a dictionary called life

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

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

print(life.keys())

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

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

# Declare a dictionary called life

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

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

print(life['animals']['cats'])