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-----OUESTIONS-----
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].
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".
5. Capitalize the element in things that refers to a person and then
print the list. Did it change the
element in the list?
6. Make a surprise list with the elements "Groucho," "Chico," and
"Harpo."
7. Lowercase the last element of the surprise list, reverse it, and then
capitalize it.
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.
9. Write the French word for walrus in your three-word dictionary e2f.
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.
12. Make and print a set of English words from the keys in e2f.
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.
14. Print the top-level keys of life.
15. Print the keys for life['animals'].
16. Print the values for life['animals']['cats'].
 -----ANSWERS-----
1- years list= [2000, 2001, 2002, 2003, 2004, 2005]
2- years list[2]
3- year list[-1]
4- things=['mozzarella','cinderella','salmonella']
# using forloop
result = []
for name in base names:
    if name == 'salmonella':
       continue
    elif name == 'cinderella':
       name = name.capitalize()
    elif name == 'mozzarella':
       name = name.upper()
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result.append(name)

print(result)

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# using reduce
from functools import reduce # for python3
def reduce fuc(acc, name):
    if name == 'salmonella':
        return acc
    elif name == 'cinderella':
       name = name.capitalize()
    elif name == 'mozzarella':
       name = name.upper()
    acc.append(name)
    return acc
names = reduce(reduce fuc, base names, [])
print(names)
6. surprise list = ["Groucho", "Chico", "Harpo"]
8. e2f = {'dog': 'chien', 'cat': 'chat', 'walrus': 'morse'}
    e2f
   {'cat': 'chat', 'walrus': 'morse', 'dog': 'chien' }
9. e2f['walrus']
    walrus
10. f2e = \{\}
      for english , french in e2f.items():
      f2e[french] = english
{'chat':'cat', 'morse':'walrus','chien':'dog' }
11. f2e['chien']
       'dog'
12. set(e2f.keys())
     'dog'
13. life = {
    'animals': {
        'cats': ['Henri', 'Grumpy', 'Lucy'],
        'octopi': '',
        'emus': '',
        },
    'plants': '',
    'other': ''
    }
14. print(life.keys())
     dict.keys(['animals', 'other', 'plants'])
15. print(life['animals'].keys())
      dict_keys(['cats','octopi','emus'])
16. print(life['animals']['cats'])
       ['Henri', 'Grumpy', 'Lucy']
```