**Assignment 16**

**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].**

**Ans 1-**

years\_list = [i for i in range(1997,1997+6)]

print(years\_list)

**o/p--** **[1997, 1998, 1999, 2000, 2001, 2002]**

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

**first year.**

**Ans 2-**

years\_list = [i for i in range(1997,1997+6)]

years\_list[3]

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

**Ans 3-**

years\_list = [i for i in range(1997,1997+6)]

print(max(years\_list))

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

**salmonella.**

**Ans 4-** things = list(['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?**

**Ans 5-**

things = list(['mozzarella', 'cinderella','salmonella'])

for i in things:

print(i.capitalize())

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

**Ans 6-**

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

print(surprise\_list)

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

**Ans 7-**

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

print(surprise\_list[-1].lower())

print(surprise\_list[-1][::-1])

print(surprise\_list[-1][::-1].upper())

**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.**

**Ans 8-**

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

print(e2f)

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

**Ans 9-**

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

print(e2f['walrus'])

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

**Ans 10-**

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

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

print(f2e)

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

**Ans 11-**

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

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

print(f2e['chien'])

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

**Ans 12-**

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

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

print(e2f.keys())

**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.**

**Ans 13-**

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

print(life)

**14. Print the top-level keys of life.**

**Ans 14-**

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

print(life.keys())

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

**Ans 15-**

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

print(life['animals'].keys())

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

**Ans 16-**

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

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