“Homework 9” Justin Minsk

1.

>>> for pheno in celegans\_phenotypes:

print(pheno)

Emb

Him

Unc

Lon

Dpy

Sma

2.

>>> for i in range(len(whales)):

more\_whales.append(whales[i] + 1)

>>> more\_whales

[6, 5, 8, 4, 3, 4, 3, 7, 5, 3, 2, 8, 2, 4]

>>> whales

[5, 4, 7, 3, 2, 3, 2, 6, 4, 2, 1, 7, 1, 3]

3.

>>> text = ""

>>> while text != "quit" and text != "Quit" and text != "QUIT":

text = input("Please enter a chemical formula (or 'quit' to exit):")

if text == "quit" or text == "Quit" or text == "QUIT":

print("...exiting program")

elif text == "H2O":

print("Water")

elif text == "NH3":

print("Ammonia")

elif text == "CH4":

print("Methane")

else:

print("Unkown compound")

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4.

>>> country\_pop = [1295, 23, 7, 3, 47, 21]

>>> total = 0

>>> for i in range(len(country\_pop)):

total += country\_pop[i]

>>> total

1396

5.

>>> i = 0

>>> Ts = ""

>>> for i in (8):

Ts = "T" \* i

print(Ts)

i += 1

T

TT

TTT

TTTT

TTTTT

TTTTTT

TTTTTTT

5.

>>> Ts = ""

>>> i = 0

>>> for i in range(8):

Ts = "T" \* i

print('{:>10}'.format(Ts))

i += 1

T

TT

TTT

TTTT

TTTTT

TTTTTT

TTTTTTT

6.

>>> i = 0

>>> Ts = ""

>>> while i < 8:

Ts = "T" \* i

print(Ts)

i += 1

T

TT

TTT

TTTT

TTTTT

TTTTTT

TTTTTTT

>>> Ts = ""

>>> i = 0

>>> while i < 8:

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print('{:>10}'.format(Ts))

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T

TT

TTT

TTTT

TTTTT

TTTTTT

TTTTTTT

7.

>>> string = ""

>>> for i in range(10):

string = string + '{}'.format(10 - i)

>>> string

'10987654321'

>>> string = ""

>>> for i in range(10):

string = string + '{}'.format(i + 1)

>>> string

'12345678910'

>>> for i in range(10):

print('{}'.format(10 - i))

10

9

8

7

6

5

4

3

2

1

>>> for i in range(10):

print('{}'.format(i + 1))

1

2

3

4

5

6

7

8

9

10