**Editing Strings**

**Model Answers**

**Challenge 1**

Write a program that produces the following output:

* Please enter your class size:
* 3
* Please enter student 1 name:
* Beyonce
* Please enter student 2 name:
* Michelle
* Please enter student 3 name:
* Kelly
* Thank you, the names of your students in swapped case are: bEYONCE, kELLY, mICHELLE

# EditingStringsChallenge1.py

# Challenge 1

# Author: A. N. Other

# date: November 2016

size = int(input("Please enter your class size\n"))

students = []

for count in range (0,size):

name = input("Please enter student {0} name\n".format(count + 1))

students.append(name)

string\_students = ",".join(students)

print("Thank you, the names of your students in swapped case are: \n{0}".format(string\_students.swapcase()))

'''

#assertions

Input: 3, Beyonce, Kelly, Michelle

Output: bEYONCE, kELLY, mICHELLE

'''

**Challenge 2**

Write a program that accepts a user input sentence and then replaces all the spaces with dashes before displaying the output to screen.

# EditingStringsChallenge2.py

# Challenge 2

# Author: A. N. Other

# date: November 2016

sentence = input("Please enter a sentence\n\n")

print("Replacing part of a string...\n{0}".format(sentence.replace(" ", "-")),"\n")

'''

#assertion

Input: I love tigers

Output:

Replacing part of a string...

I-love-tigers

'''

**Challenge 3**

Write a program that reverses the letters in a stored string.

# EditingStringsChallenge3.py

# Challenge 3

# Author: A. N. Other

# date: November 2016

sentence = "I love tigers"

print("Reversing characters in a string...\n{0}"

.format(''.join(reversed(sentence))),

"\n")

'''

#assertions

Input: sentence = "I love tigers"

Output:

Reversing characters in a string...

sregit evol I

'''

**Challenge 4**

Write a program that randomly picks a character from a stored string and then places that character between every character in the string.

# EditingStringsChallenge4.py

# Challenge 4

# Author: A. N. Other

# date: November 2016

from random import randint

sentence = "I love tigers"

index = randint(0, len(sentence))

letter\_at\_index = sentence[index]

print("Inserting a random character into a string...\n{0}".format(letter\_at\_index.join(sentence)),

"\n")

'''

#assertions

Input: sentence = "I love tigers"

Output:

Inserting a random character into a string...

Ie eleoeveee eteiegeeeres

'''

**Challenge 5**

Here is a string template:

"Welcome <first\_name>. Thank you for joining <bank\_name>. Your balance is $<balance>"

Write a program that contains a stored container with 3 bank records. You must decide what container to use. The program must use the template string to display the text for all 3 customers.

# EditingStringsChallenge5.py

# Challenge 5

# Author: A. N. Other

# date: November 2016

list\_1 = [["Andrew", "ANZ", 100.00], ["George", "BNZ", 20.30], ["David", "KiwiBank", 450.21]]

for count in range (0, len(list\_1)):

list\_2 = list\_1[count]

print("Welcome {0}. Thank you for joining {1}. your balance is ${2}".format(list\_2[0], list\_2[1], list\_2[2]))

'''

#assertion

Input: list\_1 = [["Andrew", "ANZ", 100.00], ["George", "BNZ", 20.30], ["David", "KiwiBank", 450.21]]

Output:

Welcome Andrew. Thank you for joining ANZ. your balance is $100.0

Welcome George. Thank you for joining BNZ. your balance is $20.3

Welcome David. Thank you for joining KiwiBank. your balance is $450.21

'''

**Challenge 6**

Write a program that executes the following test case assertion:

"The only thing that scares me is Keyser Soze." becomes

=> "The\*oNly\*tHing\*That\*ScareS\*me\*Is\*keYser\*Soze."

Hint: Every fifth character is capitalised.

# EditingStringsChallenge6.py

# Challenge 6

# Author: A. N. Other

# date: November 2016

sentence = "The only thing that scares me is Keyser Soze."

sentence = sentence.replace(" ","\*")

sentence = sentence.lower()

new\_sentence = ""

for char in range (0,len(sentence)):

if char % 5 == 0:

letter = sentence[char]

letter = letter.upper()

new\_sentence += letter

else:

new\_sentence += sentence[char]

print(new\_sentence)