Sergio González Sifuentes A00821229

STACK

stack = []

# append() function to push

# element in the stack

stack.append('a')

stack.append('b')

stack.append('c')

print('Initial stack')

print(stack)

# pop() function to pop

# element from stack in

# LIFO order

print('\nElements poped from stack:')

print(stack.pop())

print(stack.pop())

print(stack.pop())

print('\nStack after elements are poped:')

print(stack)

# uncommenting print(stack.pop())

# will cause an IndexError

# as the stack is now empty

QUEUE

# Python program to

# demonstrate queue implementation

# using list

# Initializing a queue

queue = []

# Adding elements to the queue

queue.append('a')

queue.append('b')

queue.append('c')

print("Initial queue")

print(queue)

# Removing elements from the queue

print("\nElements dequeued from queue")

print(queue.pop(0))

print(queue.pop(0))

print(queue.pop(0))

print("\nQueue after removing elements")

print(queue)

# Uncommenting print(queue.pop(0))

# will raise and IndexError

# as the queue is now empty

DICTIONARY

# Creating a Dictionary

# with Integer Keys

Dict = {1: 'Geeks', 2: 'For', 3: 'Geeks'}

print("\nDictionary with the use of Integer Keys: ")

print(Dict)

# Creating a Dictionary

# with Mixed keys

Dict = {'Name': 'Geeks', 1: [1, 2, 3, 4]}

print("\nDictionary with the use of Mixed Keys: ")

print(Dict)