Lecture 24 Worksheet

Comprehensions

A. Given the following:

words = ["pineapple", "mango", "quince", "blueberry", "orange"]

1. Use comprehension to create a list of the words that contain "o"

2. Use comprehension to create a list of words that have a length > 7

3. Use comprehension to create a list of integers that represent the length of each word

4. Use comprehension to create a list of words that end with "e"

B. Given the following:

heart\_rates = {"Micah": [67, 59, 84, 88],

"Briana": [59, 73, 67, 80, 79],

"Jaren": [67, 84, 71, 68 , 70]}

1. Use comprehension to create a list of the names

2. Use comprehension to create a dictionary where the key is the same key, but the value is the min of each list

3. Use comprehension to create a dictionary where the key is the same key, but the value is the average of each list

C. Given the following:

player\_stats = [

{"name": "Rina", "goals": 17, "position": "Midfield"},

{"name": "Charlie", "goals": 6, "position": "Defender"},

{"name": "Heather", "goals": 20, "position": "Midfield"}

]

1. Use comprehension to create a list of names of people who scored > 10 goals

2. Use comprehension to create a list of all unique positions