

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