

Session 4 Solutions

Exercise 4.1

```
clothes = [  
    "shorts",  
    "shoes",  
    "t-shirt",  
]  
  
if clothes[0] == 'shorts':  
    clothes[0] = 'warm coat'  
  
print(clothes)
```

Exercise 4.2

```
scores = [10, 33, 23, 19, 43, 8, 0]  
  
print('Number of scores {}'.format(len(scores)))  
print('Highest score {}'.format(max(scores)))  
print('Lowest score {}'.format(min(scores)))
```

Extension

```
scores = [10, 33, 23, 19, 43, 8, 0]  
  
print('Number of scores {}'.format(len(scores)))  
print('Highest score {}'.format(max(scores)))  
print('Lowest score {}'.format(min(scores)))  
  
sorted_scores = sorted(scores)  
desc_scores = list(reversed(sorted_scores))  
print('All scores {}'.format(desc_scores))
```

Exercise 4.3

```
shopping_list = [  
    'bread',  
    'cheese',  
    'pop tarts',  
    'carrots',  
]  
  
if 'bread' in shopping_list:  
    shopping_list.append('butter')
```

Exercise 4.4

```
costs = [8.30, 7.12, 5.01, 1.00, 0.99, 5.92, 3.50]  
total_cost = 0  
  
for cost in costs:  
    total_cost = total_cost + cost  
  
print(total_cost)
```

Exercise 4.5

```
place = {  
    'name': 'The Anchor',  
    'post_code': 'E14 6HY',  
    'street_number': '54',  
    'location': {  
        'longitude': 127,  
        'latitude': 63,  
    }  
}  
  
print(place['name'])  
print(place['post_code'])  
print(place['street_number'])
```

Exercise 4.6

```
fruits = [  
    {'name': 'apple', 'colour': 'red', 'price': 0.12},  
    {'name': 'banana', 'colour': 'yellow', 'price': 0.2},  
    {'name': 'pear', 'colour': 'green', 'price': 0.19},  
]  
  
for fruit in fruits:  
    print(fruit['name'])  
    print(fruit['colour'])  
    print(fruit['price'])
```

Exercise 4.7

```
import random  
  
first_names = ['Dierdre', 'Patricia', 'Edelbert']  
last_names = ['Johnson', 'Davis', 'Oak']  
  
first_name = random.choice(first_names)  
last_name = random.choice(last_names)  
  
print('{} {}'.format(first_name, last_name))
```