Assignment 2

September 11, 2025

[9]:
```
# 1. Fruits list
fruits = ["apple", "banana", "orange"]
print(fruits)
print(fruits[0])
print(fruits[1])
print(fruits[2])
```

```
['apple', 'banana', 'orange']
apple
banana
orange
```

[10]:
```
# 2. Names list
names = ["John", "Emma", "Liam", "Sophia"]
names[0] = "Michael"           # Change first name
print(names)
```

```
['Michael', 'Emma', 'Liam', 'Sophia']
```

[11]:
```
# 3. Vehicles list
vehicles = ["car", "bus", "bike", "truck", "scooter"]
vehicles.append("train")       # Add one more vehicle
print(vehicles)
```

```
['car', 'bus', 'bike', 'truck', 'scooter', 'train']
```

[12]:
```
# 4. Foods list
foods = ["pizza", "burger", "pasta", "salad", "rice", "soup"]
foods.remove("burger")         # Remove one food
print(foods)
```

```
['pizza', 'pasta', 'salad', 'rice', 'soup']
```

[19]:
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# 5. Cities list
cities = ["Paris", "London", "Tokyo", "New York"]
cities.sort()                  # Sort alphabetically
print(cities)
cities.reverse()               # Reverse the list
print(cities)
```

```
['London', 'New York', 'Paris', 'Tokyo']
['Tokyo', 'Paris', 'New York', 'London']
```

[14]:
```python
# 6. Animals with for loop
animals = ["dog", "cat", "elephant"]
for animal in animals:
    print(animal)
```

```
dog
cat
elephant
```

[15]:
```python
# 7. Numbers multiplied by 2
numbers = [1, 2, 3, 4, 5]
for num in numbers:
    print(num * 2)
```

```
2
4
6
8
10
```

[16]:
```python
# 8. Friends list
friends = ["Alice", "Bob", "Charlie", "David", "Eva", "Frank"]
print(friends[:3])              # First three friends
print(friends[-3:])             # Last three friends
```

```
['Alice', 'Bob', 'Charlie']
['David', 'Eva', 'Frank']
```

[17]:
```python
# 9. Range from 1 to 10
numbers = list(range(1, 11))
print(numbers)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

[18]:
```python
# 10. Squares with list comprehension
squares = [x**2 for x in range(1, 6)]
print(squares)
```

```
[1, 4, 9, 16, 25]
```

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