

V2_using_lists_and_tuples

August 12, 2025

1 Activity: Using Lists & Tuples

1.1 Introduction

In this activity you will practice using and creating lists and tuples. This activity contains the following topics: - Creating lists - Creating tuples - Indexing - Slicing - List methods - Unpacking

Question 1 Create a list called `countries` with the names of 5 different countries of your choice.

```
[24]: countries = ["Brazil", "Japan", "Canada", "Australia", "India"]
      print(countries)
```

```
['Brazil', 'Japan', 'Canada', 'Australia', 'India']
```

```
[25]: # Question 1 Grading Checks

      assert isinstance(countries, list), 'Your variable is not a list'
```

Question 2 Using the `countries` list, assign the first and last countries in the list to the variables `first_country` and `last_country` respectively.

```
[34]: countries = ["Brazil", "Japan", "Canada", "Australia", "India"]
      first_country = countries[0] # Brazil
      last_country = countries[-1] # India

      print(first_country)
      print(last_country)
```

```
Brazil
```

```
India
```

```
[23]: # Question 2 Grading Checks

      assert isinstance(first_country, str), 'Your variable is not a string'
      assert isinstance(last_country, str), 'Your variable is not a string'
```

Question 3 Using the `countries` list, add a country to the end of the list and then assign the last 3 countries to a variable called `last_three_countries`.

```
[27]: countries = ["Brazil", "Japan", "Canada", "Australia", "India"]
      countries.append("China")
      last_three_countries = countries[-3:]
      print(last_three_countries)
```

```
['Australia', 'India', 'China']
```

```
[28]: # Question 3 Grading Checks

      assert isinstance(last_three_countries, list), 'Your variable is not a list'
```

Question 4 You're given a tuple containing superheroes, unpack the tuple into variables `superman`, `batman`, and `black_panther`

```
[29]: # Given tuple

      superheroes = ('Superman', 'Batman', 'Black Panther')
```

```
[30]: superman, batman, black_panther = superheroes

      print(superman)
      print(batman)
      print(black_panther)
```

```
Superman
Batman
Black Panther
```

```
[31]: # Question 6 Grading Checks

      assert isinstance(superman, str), 'Your variable is not a string'
      assert isinstance(batman, str), 'Your variable is not a string'
      assert isinstance(black_panther, str), 'Your variable is not a string'
```