Tuples are used to group multiple values into a single compound value that can then be decomposed into its parts

```
1 let http404Error = (404, "Not Found")
2 // http404Error is of type (Int, String), and equals (404, "Not Found")
```

You can then decompose the tuple's contents into separate constants or variables

```
1 let (statusCode, statusMessage) = http404Error
2 print("The status code is \((statusCode)"))
3 // prints "The status code is 404"
4 print("The status message is \((statusMessage)"))
5 // prints "The status message is Not Found"
```

If you don't need a component of the tuple, ignore that part with an underscore, (\_) when decomposing

```
1 let (justTheStatusCode, _) = http404Error
2 print("The status code is \( (justTheStatusCode)")
3 // prints "The status code is 404"
```

You can also access the values by 0-indexing

```
1 print("The status code is \((http404Error.0)")
2 // prints "The status code is 404"
3 print("The status message is \((http404Error.1)"))
4 // prints "The status message is Not Found"
```

You can also name the values when creating the tuple to access components through their names

```
1 let http200Status = (statusCode: 200, description: "OK")
2
3 print("The status code is \((http200Status.statusCode)")
4 // prints "The status code is 200"
5 print("The status message is \((http200Status.description)"))
6 // prints "The status message is OK"
```

- NOTE: Tuples are not good data structures for persistent storage, only temporary usage
  - Model persistent data as a class or structure