



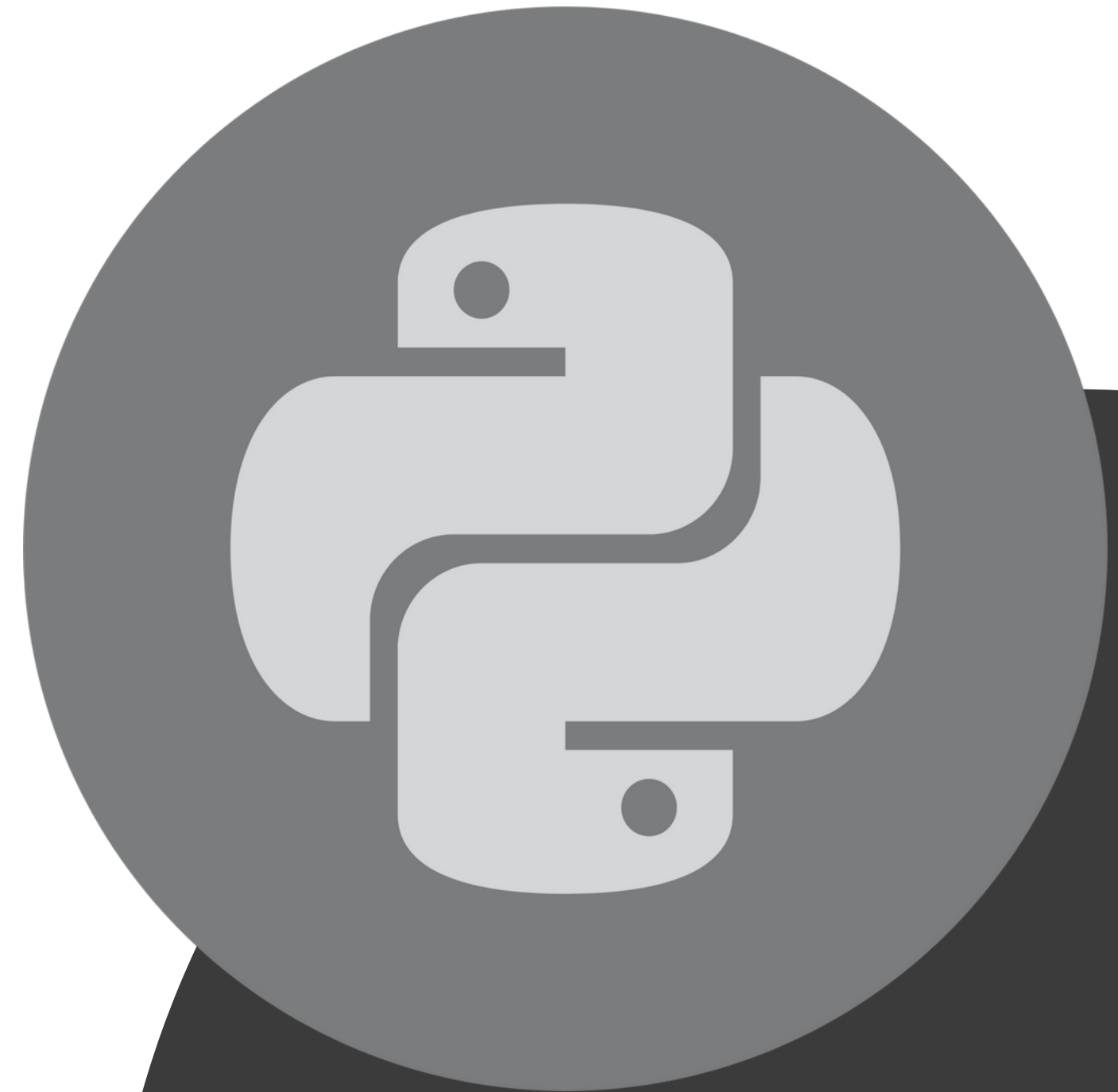
PYTHON COURSE



ENTRY LEVEL

Basics of programming in Python 3.10

This course will cover part of the arguments found in
PCEP™ – Certified Entry-Level Python Programmer
Certification



DATA COLLECTIONS: TUPLES



TUPLES

- A particular type of data **collection** structure
- Tuples are an **immutable object**
- We can **define tuples using round brackets**
- **Tuples has fixed size and elements can only be accessed**



PYTHON

TUPLES

Create tuples with round brackets

```
new_tuple = (1, 2, 3)
```

```
print(new_tuple)
```

```
print(new_tuple[0])
```

TUPLES

as an immutable object, you can't remove, change or modify the values in the tuple. As for other immutable types, you need to assign a new tuple to overwrite the value

```
new_tuple = (1, 2, 3)  
new_tuple[0] = 0 # Causes an error
```

elements in the tuple are divided by commas

TUPLES

As an iterable, also tuples can be nested and iterated on

```
nested_tuple = ((1, "Al"), (2, "Jack"), (3, "Matt"))

for tuples in nested_tuple:
    for element in tuples:
        print(element)
```

as an immutable object, operations on tuples do not changes the original tuple

EXERCISES