PROGRAMMING 1 - WEEK 5

Skills

Athletes (1)

Imagine you're developing a small application for a sports event. You are given a tuple with the names of all the athletes. Write a function to print out all the names.

Given:

```
athletes = (
    "Lisa De Vries",
    "James Thompson",
    "Sophie Dubois",
    "Tomoya Sato",
    "Marta Rossi",
    "Jules Francois"
)
```

Result:

```
Lisa De Vries
James Thompson
Sophie Dubois
Tomoya Sato
Marta Rossi
Jules Francois
```

Athletes (2)

Imagine you're developing a small application for a sports event. You are given a list of tuples with the names of all the athletes and their finish time in seconds. Write a function to print out all the names.

Given:

```python
athletes = [
    ("Lisa de Vries", 12.84),
    ("James Thompson", 13.21),
    ("Sophie Dubois", 12.75),
    ("Tomoya Sato", 12.90),
    ("Marta Rossi", 12.88),
    ("Jules Francois", 13.13)
]
```

Result:

```
Lisa De Vries
James Thompson
Sophie Dubois
Tomoya Sato
Marta Rossi
Jules Francois
```

Athletes (3)

Imagine you're developing a small application for a sports event. You are given a list of tuples with the names of all the athletes and their finish time in seconds. Write a function that returns the athlete with the best (lowest) time.

Given:

```python
athletes = [
    ("Lisa de Vries", 12.84),
    ("James Thompson", 13.21),
    ("Sophie Dubois", 12.75),
    ("Tomoya Sato", 12.90),
    ("Marta Rossi", 12.88),
    ("Jules Francois", 13.13)
]
```

Result:

```python
('James Thompson', 13.21)
```

Athletes (4)

Imagine you're developing a small application for a sports event. You are given a list of tuples with the names of all the athletes, their finish time in seconds and their country of origin. Write a function that returns the number of unique countries.

Given:

```python
athletes = [
    ("Lisa de Vries", 12.84, "Netherlands"),
    ("James Thompson", 13.21, "United States"),
    ("Sophie Dubois", 12.75, "France"),
    ("Tomoya Sato", 12.90, "Japan"),
    ("Marta Rossi", 12.88, "Italy"),
    ("Jules Francois", 13.13, "France")
]
```

Result:

```
5
```

Athletes (5)

Imagine you're developing a small application for a sports event. You are given a list of tuples with the names of all the athletes, their finish time in seconds and their country of origin. Write a function that removes the athletes that don't have a finish time from the given list.

Given:

```
athletes = [
    ("Lisa de Vries", 12.84, "Netherlands"),
    ("James Thompson", 13.21, "United States"),
    ("Sophie Dubois", 12.75, "France"),
    ("Tomoya Sato", None, "Japan"),
    ("Marta Rossi", None, "Italy"),
    ("Jules Francois", 13.13, "France")
]
```

Result:

```
athletes = [
    ["Lisa de Vries", 12.84, "Netherlands"],
    ("James Thompson", 13.21, "United States"),
    ("Sophie Dubois", 12.75, "France"),
    ("Jules Francois", 13.13, "France")
]
```

Athletes (6)

Imagine you're developing a small application for a sports event. You are given a **list of tuples** with the **names** of all the athletes, their **finish time** in seconds and their **country** of origin. In order to protect your data, you should write a function that returns a copy of the given list.

Given:

```
athletes = [
    ("Lisa de Vries", 12.84, "Netherlands"),
    ("James Thompson", 13.21, "United States"),
    ("Sophie Dubois", 12.75, "France"),
    ("Tomoya Sato", None, "Japan"),
    ("Marta Rossi", None, "Italy"),
    ("Jules Francois", 13.13, "France")
]
```

Result:

```
copy = [
    ["Lisa de Vries", 12.84, "Netherlands"],
    ("James Thompson", 13.21, "United States"),
    ("Sophie Dubois", 12.75, "France"),
    ("Tomoya Sato", None, "Japan"),
    ("Marta Rossi", None, "Italy"),
    ("Jules Francois", 13.13, "France")
]
```