6. Control Statements

Changing the Flow of Commands

If Statements

If statements (if, elif, else)

- If statements allow to execute **different blocks** of code **based on conditions**.
- They can be used to model **decisions** in Python.

Syntax:

```python
if condition1:

    # Code to execute if the condition1 is True

elif condition2:

    # Code to execute if the condition1 is False
                                and condition2 is
True

else:

    # Code to execute if all conditions are False
```

If statements (if, elif, else)

- The `if` keyword is followed by a condition that evaluates to either True or False.
- If the condition is True, the code block under the `if` statement is executed.
- If the condition is False, the code block under the `elif` statement is executed.
- If all conditions are False, the code block under the `else` statement is executed.

TRIVIA

`elif` is short for `else if`

If statements (if, elif, else)

```
x = 10

if x > 5:

        print("x is greater than 5")

elif x == 5:

        print("x is equal to 5")

else:

        print("x is less than 5")
```