COMP110: Conditionals and Booleans

Conditional statements allow you to control the flow of a program.

1. if Statement

```
x = 10
if x > 0:
    print("Positive number")
```

2. if-else Statement

```
x = -5
if x > 0:
    print("Positive")
else:
    print("Non-positive")
```

3. if-elif-else Chain

```
score = 85
if score >= 90:
    print("Grade: A")
elif score >= 80:
    print("Grade: B")
elif score >= 70:
    print("Grade: C")
else:
    print("Grade: F")
```

## 4. Logical Operators

```
a = True

b = False


if a and not b:

    print("a is True and b is False")
```

## 5. Comparison Operators

==, !=, <, >, <=, >=

These are used in condition checks.