if - elif - else Week 3

if..else statements

```
if <condition>:
      <block of code 1>
else:
      <block of code 2>
```

- If condition is True, we execute <block of code 1>
- If condition is False, we execute <block of code 2>

Example

```
age = 18
if age >= 18:
    print("You are eligible to vote.")
else:
    print("You are not eligible to vote.")
File: Example 8. py
```

if..elif..else

• elif is shorthand for else if

if..elif..else

- This is an extension of the basic if..else statement, allowing for multiple conditions to be checked in sequence.
- This is useful when you have more than two possible outcomes.
- if checks the first condition. If it is true, the corresponding block of code runs, and the elif and else blocks are skipped.
- elif means "else if". This allows you to check additional conditions if the previous if or elif conditions were false. You can have multiple elif blocks.
- else part is executed if none of the preceding if or elif conditions are true.

Example

```
if score \geq = 90:
    print("Grade: 5")
elif score >= 80:
    print("Grade: 4")
elif score >= 70:
    print("Grade: 3")
elif score >= 60:
    print("Grade: 2")
elif score >= 50:
    print("Grade: 1")
else:
    print("Grade: 0")
```

if..elif..else

- Only one block among the several if . . elif . . else blocks is executed!
- Every if condition can have at most one else block
- else part can be also missing.
- There can several elif blocks following each other.

File: Example 9.py

File: Example 10.py