Exceptions and Assertions
Common Types of Exceptions

**TypeError:** Passing an inappropriate type to an operation

Ex. \( x = 5 + "hello" \)

**IndexError:** Out-of-range sequence index

Ex. \( \text{test} = [1, 2, 3] \)

\( \text{print(test[3])} \)

**NameError:** Failure to find a local or global name

Ex. \( \text{print(x)} \) where \( x \) hasn't been defined

**ValueError:** Raised when a built-in operation or function receives an argument that has the right type but an inappropriate value, and the situation is not described by a more precise exception such as IndexError.

Ex. \( \text{int()} \) takes a string, such as \( \text{int("2")} \), but \( \text{int("two")} \) doesn't work