CL11 – Constants, Default Parameters, User Input, and Recursion Practice

Reminders

No class on Monday – Wellbeing Day!

- No Office Hours or Tutoring offered on Sunday or Monday (Feb 9 & 10)

Quiz 01 Prep:

- Review session in Fred Brooks (FB) 007 on Wednesday, Feb 12th at 6:15pm
- Practice quiz and solutions on the course site today
- Visit Office Hours and Tutoring – we *want* to help you!

Let's play a guessing game!

Two new concepts:
named constants and default parameters

Named constants:

- Variables that are meant to hold a value that doesn't change throughout the program's execution
- Naming convention: all uppercase letters, with underscores between any words

```
PI: float = 3.14

FREEZING_F: int = 32

FREEZING_C: int = 0
```

Two new concepts:
named **constants** and **default parameters**

Default parameters:

- A parameter in a function signature that is assigned a default value. If a function call does not provide a value for that parameter, the default value is used
- *** Default parameters should come *after* non-default parameters in the function signature ***

```python
def greet(name: str, greeting: str ="Hello") -> None:
```

default parameter

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```python
def greet(name: str, greeting: str ="Hello") -> None:
```

Happy with the default greeting? `greet(name="Conor")`

Want to specify your own greeting? `greet(name="Conor", greeting="Hi")`

Let's write this function together, step by step!