

# FA26B Advanced Programming

## Assignment 5 - Number Game

### Instructions

In your student folder on Teams, create a new folder named day\_05. Submit your file to this folder. For this assignment, do the following:

- Create a py file and name it `number_game.py`
- Add these comments to your file (3 separate lines)
  - Your name
  - Description of what the program does
- Complete the exercise
- Upload the py file to your day\_05 folder

### The Game

1. Greet the user with a message and instructions.
  2. Generate a random number.
  3. Provide the range to the user.
  4. Prompt the user for a guess.
  5. Validate user input.
    - Don't accept anything other than integers.
    - Don't accept anything outside of the range.
  6. Inform the user if the number is too high, too low or correct.
  7. If the guess is correct, give the user a score.
  8. Give the user the option to start a new game or quit.
  9. If the user opts to continue, generate a new random number.
  10. If the user quits, display a 'goodbye' message.
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- Use good coding practices and technique.
  - Include comments where appropriate.
  - Include at least 3 functions.

- Make the code readable.
- Make the code efficient.
- Review the Zen of Python (import this).
- Review the PEP8 style guide.