FizzBuzz Twist Game - Detailed Explanation

This document provides a step-by-step explanation of the Python program FizzBuzz Twist Game. It explains the purpose of the code, the rules of the game, and how each part of the program works.

# Game Rules

1. The game runs for a number of rounds (default = 10).  
2. In the first round, the number itself is considered.  
3. From the second round onwards, the total is calculated as (current number + previous number).  
4. FizzBuzz rules are applied:  
 - If divisible by 3 → 'Fizz'  
 - If divisible by 5 → 'Buzz'  
 - If divisible by both 3 and 5 → 'Fizz Buzz'  
 - Otherwise, the number itself.  
5. The player enters their answer, and the program checks it.  
6. Scores are awarded for correct answers, and the final score is displayed at the end.

# Step-by-Step Code Explanation

1. Import random: Used to generate random numbers for the game.  
  
2. Function Definition: fizzbuzz\_game(rounds=10) defines the game function. The parameter 'rounds' specifies how many times the game will run.  
  
3. Introduction: The program prints welcome messages and explains the rules to the player.  
  
4. Variables:  
 - 'points' keeps track of the user’s score.  
 - 'last\_num' stores the previous random number (used from round 2 onward).  
  
5. Game Loop: Runs for each round using a for loop.  
 - A random number is generated using random.randint(1, 20).  
 - The total is calculated: If it’s the first round, total = number. Otherwise, total = number + last\_num.  
  
6. FizzBuzz Logic:  
 - If total % 15 == 0 → 'Fizz Buzz'.  
 - If total % 3 == 0 → 'Fizz'.  
 - If total % 5 == 0 → 'Buzz'.  
 - Otherwise, just the number.  
  
7. User Input: The player types their guess. The program compares it with the correct answer.  
  
8. Scoring:  
 - If the answer is correct, points are increased, and a success message is displayed.  
 - If the answer is wrong, the correct answer is shown.  
  
9. Update Previous Number: The variable 'last\_num' is updated so it can be used in the next round.  
  
10. Final Result: After all rounds, the program prints the final score.

# Conclusion

The FizzBuzz Twist Game is a fun and interactive way to practice Python programming. It helps improve understanding of loops, conditionals, user input, string comparison, and logic implementation in real-world style games.