**Rock, Scissors, and Paper Game Documentation**

**Introduction**

This document provides a comprehensive overview of the Python code for a Rock, Scissors, and Paper game. The code allows a user to play the classic game against the computer. The game follows the standard rules, where rock beats scissors, scissors beats paper, and paper beats rock.

**Code Overview**

The code is divided into several functions, each serving a specific purpose. Here's an overview of the functions and their roles:

**1. user\_choice():**

- This function prompts the user to enter their choice, which should be one of the following: rock, scissors, or paper.

- It continues to prompt the user until a valid choice is entered.

- It returns the user's choice as a lowercase string.

**2. computer\_choice():**

- This function generates a random choice for the computer from the options: rock, scissors, or paper.

- It returns the computer's choice as a string.

**3. winner(user\_choice, computer\_choice:**

- This function takes two parameters, the user's choice and the computer's choice.

- It determines the winner based on the game's rules and returns the result as a string. Possible outcomes are a tie, user victory, or computer victory.

**4. play():**

- This is the main function that orchestrates the game.

- It initializes scores for the user and computer.

- It repeatedly calls the user\_choice and computer\_choice functions to get the choices of both the user and the computer.

- It determines the winner using the winner function and updates the scores accordingly.

- It asks the user if they want to play again and continues the game if they respond with "yes."

- The game loop ends when the user decides not to play again, and the final scores are displayed.

**5. if \_\_name\_\_=="\_\_main\_\_":**

- This condition ensures that the code inside this block is only executed if the script is run directly (not imported as a module).

- It welcomes the player to the game and initiates the play() function to start the game.

**How to Play**

1. Run the Python script.

2. You will be welcomed to the game and prompted to make your choice (rock, scissors, or paper).

3. The computer will randomly select its choice.

4. The winner for that round will be determined and displayed.

5. Your and the computer's scores will be updated.

6. You will be asked if you want to play again. If you enter "yes," the game continues; otherwise, it ends.

7. The final scores are displayed at the end of the game.

Enjoy playing the Rock, Scissors, and Paper game!