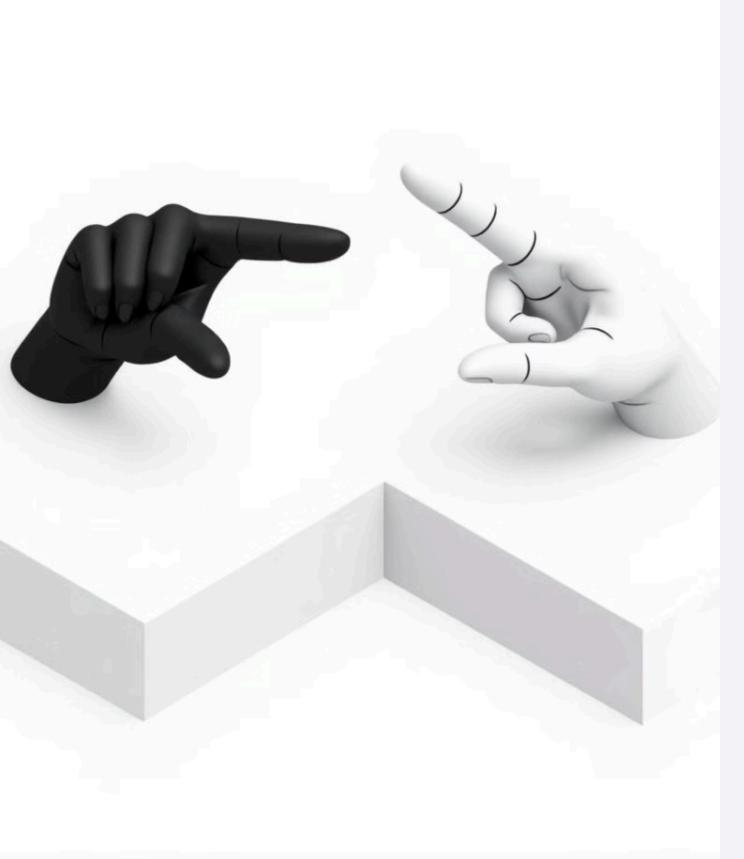
## Rock Paper Scissors: A Python Game

Classic game implemented through programming. Learn core Python concepts. An interactive computer vs. player challenge.





#### Game Rules and Logic

Rock beats Scissors. Scissors beats Paper. Paper beats Rock. A tie occurs when both choose same option. Understand these simple rules.

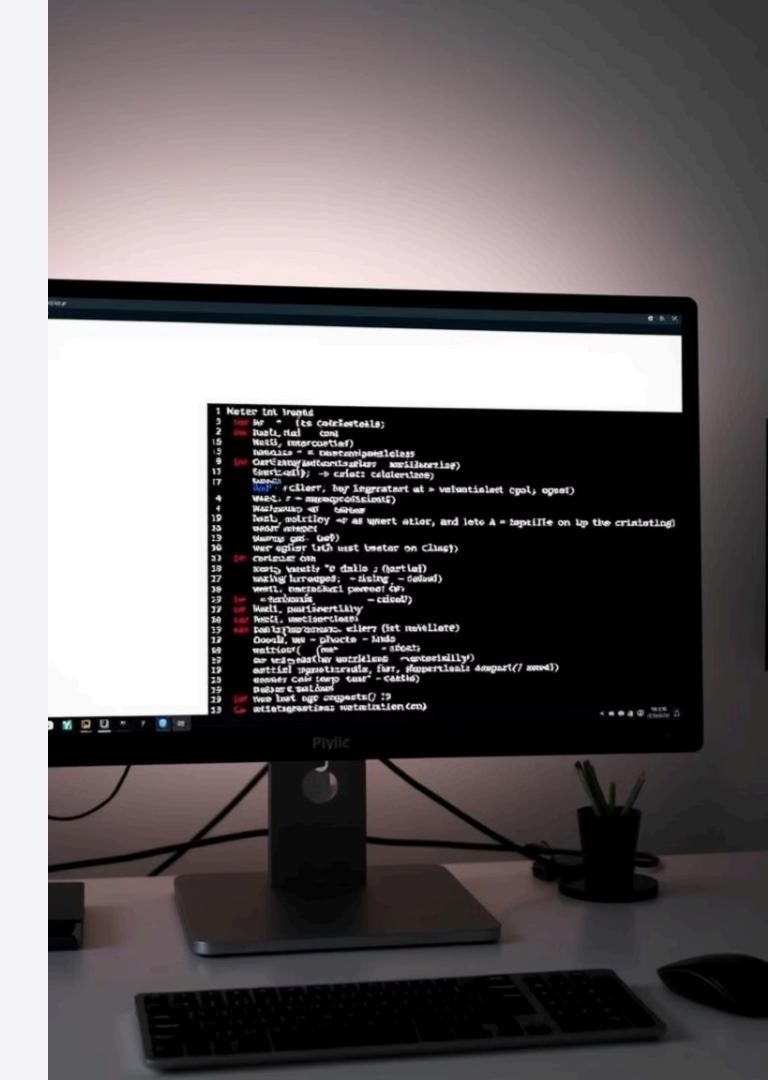




# Python Modules and Imports

The **random** module for the computer's choice. Use **random.choice()** to generate the computer play. Simple, built-in Python functionality, so no additional libraries are required.

Random Module: A building block for the game.



#### User Input and

Input prompt for the player's choice. Use **.lower()** to handle case sensitivity. Validation needed to ensure correct input. Add error handling for invalid selections.

Ensure user inputs are valid and handled correctly.



### Generating Computer's Choice

**random.choice()** is used to select from a list/tuple. Options: ["Rock", "Paper", "Scissors"]. This simulates unpredictable computer play.

Python's randomization for unpredictable outcomes.

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#### Determining the

Apply conditional logic with **if/elif** statements. Compare player and computer choices. Define win/lose/tie scenarios. Creates a compact, readable code structure.

The game logic expressed through efficient coding.

### Extending the Game

Add a scoring mechanism. Implement multiple rounds to make the game interesting. Add the create replay functionality. Potential GUI development with Tkinter.

Enhanced replayability and user interaction.



#### CONCLUSION

We have successfully created a Rock Paper Scissors game in Python! This project demonstrates fundamental programming concepts such as user input, conditional logic, and random number generation. It can be further expanded with features like scoring and a graphical user interface.