

Project 2

rock-paper- scissors game

Zynb Mkrm

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Import



Import

```
import random
```

Imports the `random` module for generating random choices for the computer's move.



Functions

Functions

- `get_player_move()`:
- Prompts the user to enter their move (rock, paper, or scissors).
- Validates the input using a `try-except` block to handle invalid entries.
- Returns the user's move if it's valid.
- `get_computer_move()`:
- Generates a random move for the computer using `random.choice('rps')`.
- `determine_winner(player_move, computer_move)`:
- Determines the winner of the round based on the player's and computer's moves.
- Returns "tie" if the moves are the same, "win" if the player wins, and "lose" if the computer wins.
- `print_scoreboard(wins, losses, ties)`:
- Prints the current win, loss, and tie counts in a formatted manner.

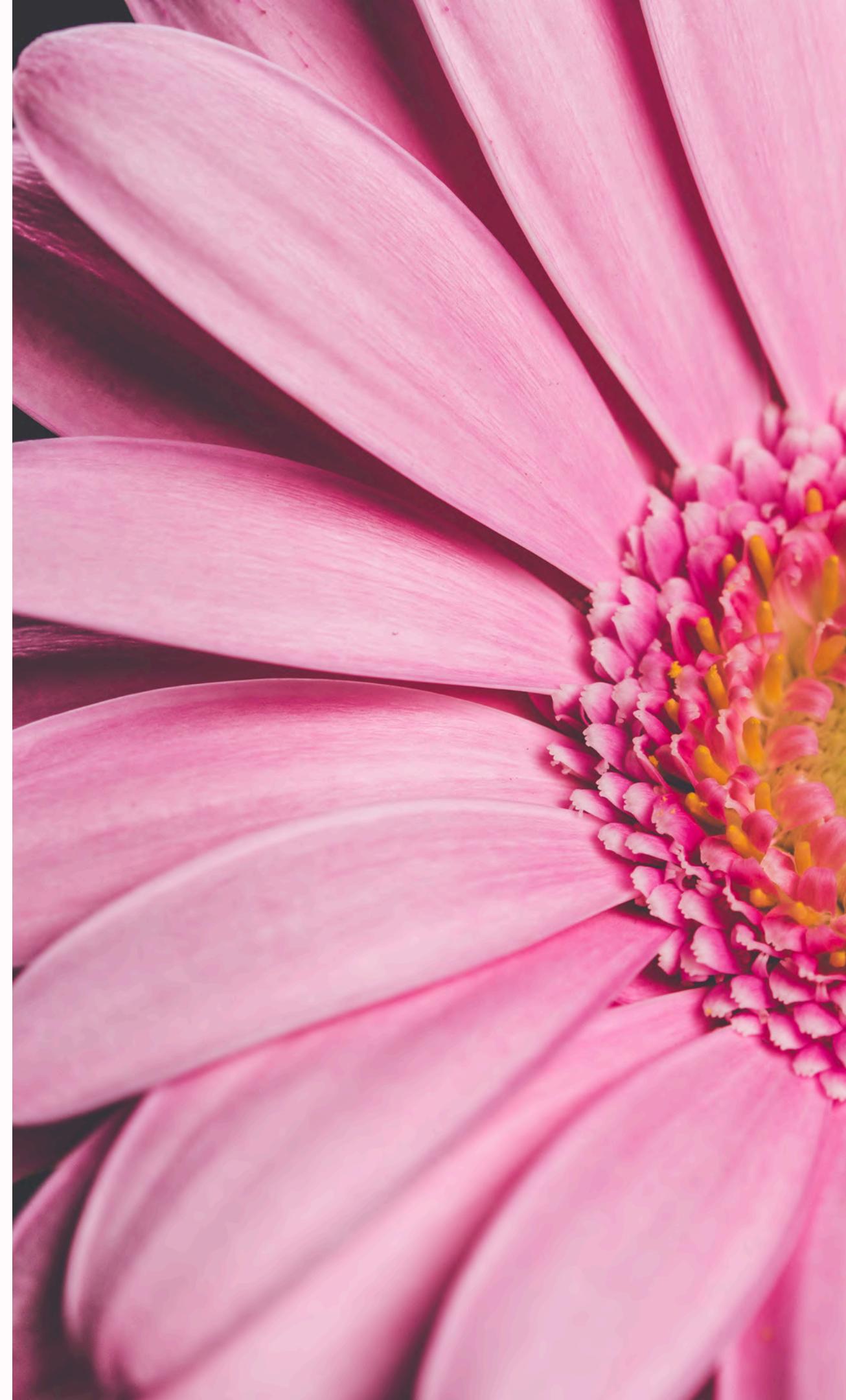




Main Function



Main Function

- `main()` is the entry point of the program.
 - Initializes the `wins`, `losses`, and `ties` variables to 0.
 - Enters a loop that continues until the user quits.
 - Calls `print_scoreboard()` to display the current scores.
 - Gets the player's move using `get_player_move()`.
 - If the player wants to quit, breaks out of the loop.
 - Generates the computer's move using `get_computer_move()`.
 - Prints the moves of both players.
 - Determines the winner using `determine_winner()`.
 - Updates the win, loss, or tie count based on the result.
- 



Overall
Functionality





Overall Functionality

The code simulates a game of rock-paper-scissors.

The `get_player_move()` function ensures valid input from the user.

The `get_computer_move()` function generates a random move for the computer.

The `determine_winner()` function determines the winner of each round based on the rules of the game.

The `print_scoreboard()` function displays the current win, loss, and tie counts.

The main loop continues until the user quits, allowing for multiple rounds of the game.



Thank You

Zynb mkrm