

# Documentation Generator for Rock, Paper, Scissors Game

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Here is a well-formatted list of code features:

## Features

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1. `choices`: A list of valid choices in the game: rock, paper and scissors.
2. `is_valid_response(response)`: Checks if the user's response is a valid choice.
3. `is_winning_response(response1, response2)`: Checks if `response1` beats `response2` .
4. `is_a_tie(response1, response2)`: Checks if `response1` and `response2` are identical, indicating an equality.
5. `clear_console()`: Clears the console screen for better game formatting.
6. `game_message()`: Displays a game message in ASCII art.
7. `print_welcome_message()`: Provides a welcome message and ASCII art for the game.
8. `get_user_response()`: Retrieves the user's response and validates it until a valid response is provided.
9. `get_computer_response()`: Generates a random response for the computer.
10. `display_results(user_response, computer_response)`: Displays the choice of the user, the choice of the computer and the result of the game.

11. `play_again()`: Ask the user if they want to play again and return True if they do, False otherwise.
12. `main()`: Main function of the application that manages the course of the game.

## Compilation and Execution of the Game

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To compile and run the game from the terminal, follow these steps (make sure you have Python installed on your system):

1. Save the code to a file with the extension “.py” (for example, “rock\_paper\_scissors.py”).
2. Open a terminal (or command prompt) in the directory where the file “rock\_paper\_scissors.py” is located.
3. To run the game, type `python rock_paper_scissors.py` into the terminal and press Enter.

## Execution of Pytest Tests and Coverage Test Screening

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To run the pytest tests and complete the test coverage, you can follow these steps:

1. Make sure you have pytest installed. If you don't already have it installed, you can do so using pip:

```
pip install pytest
```

2. Take the test file (“test\_rock\_paper\_scissors.py”) containing the pytest tests for the different functions of the game.
3. In the terminal, run pytest with the test file name:

```
pytest test_rock_paper_scissors.py
```

This will run the tests in the test file and display the result.

4. To get a code coverage report, you can use the plugin

`pytest-cov` . Install it using pip:

```
pip install pytest
```

5. Run pytest with the cover plugin:

```
pytest --cov=rock_paper_scissors test_rock_paper_scissors.py
```

This will run the tests and display a report showing the code coverage for the file “rock\_paper\_scissors.py”.

Remember that to run the tests, make sure that the file “rock\_paper\_scissors.py” is in the same directory as the test file, or adjust the imports into the test file accordingly if the file is in a subdirectory.

Documentation has been generated using pydoc and is present in the folder.