

ROCK,PAPER, SCISSORS

A simple text-based “Rock, Paper, Scissors” game. In this game, the player competes against the computer. The player will choose either rock, paper, or scissors, and the computer will randomly choose one as well. The winner will be determined based on the classic rules of the game.

How to Run the Game

- Make sure you have Python installed on your computer.
- Copy the code above into a text editor and save it as rock_paper_scissors.py.
- Open your terminal or command prompt.
- Navigate to the directory where you saved the file.

Run the game by typing `python rock_paper_scissors.py` and hitting Enter.

How to Play

- The game will prompt you to enter your choice: “rock”, “paper”, or “scissors”.
- The computer will randomly choose one of the three options.
- The game will announce the winner based on the rules:

Rock beats scissors.

Scissors beat paper.

Paper beats rock.

You can continue playing until you type “quit” to exit the game.

PROGRAM:

```
Import random
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```
Def get_computer_choice():
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    Choices = ['rock', 'paper', 'scissors']
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Return random.choice(choices)

Def get_user_choice():
    User_input = input("Enter rock, paper, or scissors (or 'quit' to stop playing): ").lower()
    While user_input not in ['rock', 'paper', 'scissors', 'quit']:
        Print("Invalid choice. Please try again.")
        User_input = input("Enter rock, paper, or scissors (or 'quit' to stop playing): ").lower()
    Return user_input

Def determine_winner(user_choice, computer_choice):
    If user_choice == computer_choice:
        Return "It's a tie!"
    Elif (user_choice == 'rock' and computer_choice == 'scissors') or \
        (user_choice == 'paper' and computer_choice == 'rock') or \
        (user_choice == 'scissors' and computer_choice == 'paper'):
        Return "You win!"
    Else:
        Return "You lose!"

Def play_game():
    Print("Welcome to Rock, Paper, Scissors!")
    While True:
        User_choice = get_user_choice()
        If user_choice == 'quit':
            Print("Thanks for playing!")
            Break
        Computer_choice = get_computer_choice()
        Print(f"You chose: {user_choice}")
        Print(f"The computer chose: {computer_choice}")

```

```
Result = determine_winner(user_choice, computer_choice)

Print(result)

If __name__ == "__main__":

    Play_game()
```

OUTPUT :

Welcome to Rock, Paper, Scissors!

Enter rock, paper, or scissors (or 'quit' to stop playing): rock

You chose: rock

The computer chose: scissors

You win!

Enter rock, paper, or scissors (or 'quit' to stop playing): paper

You chose: paper

The computer chose: rock

You win!

Enter rock, paper, or scissors (or 'quit' to stop playing): scissors

You chose: scissors

The computer chose: paper

You win!

Enter rock, paper, or scissors (or 'quit' to stop playing): rock

You chose: rock

The computer chose: paper

You lose!

Enter rock, paper, or scissors (or 'quit' to stop playing): quit

Thanks for playing!

```
Output : Welcome to Rock, Paper,  
        Scissors!  
Enter rock, paper, or scissors (or 'quit'  
        to stop playing): rock  
You chose: rock  
The computer chose: scissors  
You win!  
Enter rock, paper, or scissors (or 'quit'  
        to stop playing): paper  
You chose: paper  
The computer chose: rock  
You win!  
Enter rock, paper, or scissors (or 'quit'  
        to stop playing): scissors  
You chose: scissors  
The computer chose: paper  
You win!  
Enter rock, paper, or scissors (or 'quit'  
        to stop playing): rock  
You chose: rock  
The computer chose: paper  
You lose!
```

