

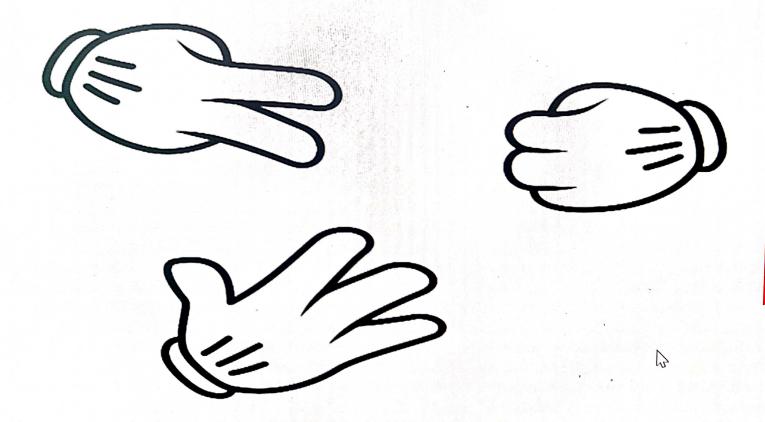
Rock Paper Scissors







```
###Rock paper scissors game
import random
while True:
    my_answer=input("Choose: rock, paper
or scissors:")
    my_answer=my_answer.lower()
    if my_answer=="quit":
        break
    if my_answer!="rock" and
my_answer!="paper" and
my_answer!="scissors":
        print("Please choose a correct
answer")
        continue
computer_answer=random.choice(["rock","pap
er", "scissors"])
    print(f"Computer choice:
{computer_answer}")
    if my_answer==computer_answer:
        print("You tied")
        continue
    elif my_answer=="paper" and
computer_answer=="rock":
        print("You Win")
        break
    elif my_answer=="rock" and
computer_answer=="scissors":
        print("You Win")
        break
    elif my_answer=="scissors" and
computer_answer=="paper":
        print("You Win")
        break
    else:
        print("You lose.Try again")
```



Here's a detailed explanation of your Rock Paper Scissors Game Project in Python

Project Title: Rock Paper Scissors Game

OPPOJECT Goal

To create a simple **command-line game** in Python where the player competes against the computer by choosing between **rock**, **paper**, and **scissors**.

How the Game Works

Rock, Paper, Scissors is a classic hand game usually played between two people. The rules are:

- · Rock beats Scissors
- · Scissors beats Paper
- Paper beats Rock
- If both players choose the same, it's a tie

In your program:

- The user will input their choice.
- The computer will make a random choice.
- The program will compare the choices and declare a winner.

Technologies Used

TechnologyPurposePythonCore programming languagerandom moduleTo make the computer choose randomly

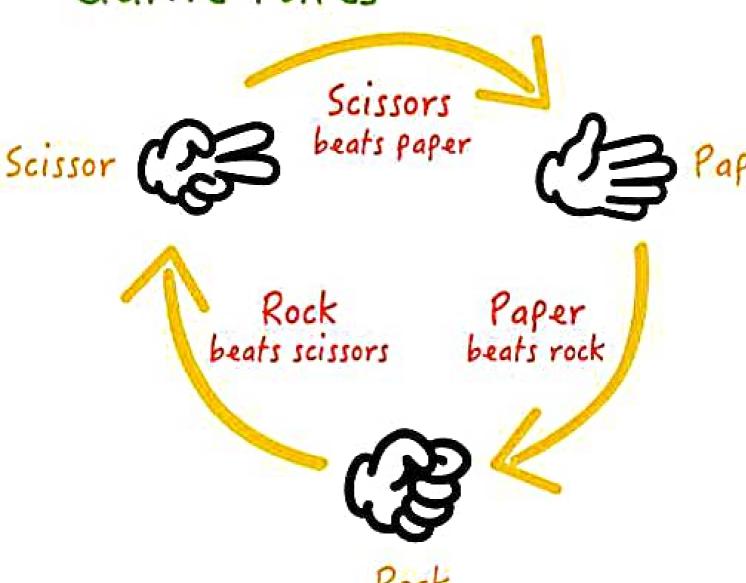
Project Structure

Rock-Paper-Scissors-Game/

— rps.py # Main game code
— README.md # Project details and instructions

- .gitignore # Ignores unnecessary files like __pycache__

Game rules



Rock

How the Code Works – Step-by-

Step

1. Import Random Module

To allow the computer to make a random choice.

```
import random
```

2. Define Possible Choices

```
choices = ["rock", "paper", "scissors"]
```

3. Get User Input

```
user_choice = input("Enter rock, paper or scissors: ").lower()
```

4. Computer Makes a Choice

```
computer_choice = random.choice(choices)
```

5. Print Choices

```
print(f"You chose {user_choice}, computer chose {computer_choice}")
```

6. Determine the Winner

Use conditional if-elif-else statements.

```
if user_choice == computer_choice:
    print("It's a tie!")
elif (user_choice == "rock" and computer_choice == "scissors") or \
        (user_choice == "scissors" and computer_choice == "paper") or \
        (user_choice == "paper" and computer_choice == "rock"):
    print("You win!")
else:
    print("Computer wins!")
```

7. Optional: Add a Loop

Let the user play again without restarting the program.

Features You Can Add (Bonus Ideas)

- Keep track of the score (Player vs Computer)
- Allow the user to quit any time by typing exit
- Add a graphical interface
 Winterface
- using tkinter or pygame (advanced)
- Show emojis () to make it more fun

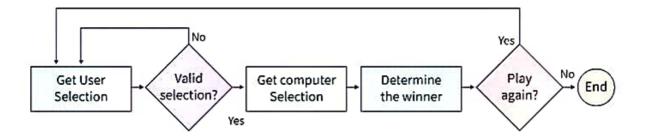
📸 Sample Output

Enter rock, paper or scissors: rock You chose rock, computer chose scissors You win!

Learning Outcomes

By completing this project, you'll learn:

- How to use if-else logic
- How to work with user input
- · How to use Python's random module
- How to structure a simple program_____



##Here's

a detailed explanation of the output for your Rock Paper Scissors game, including what each part of the output means and how it is generated from the

Sample Output (with full explanation)

Enter rock, paper or scissors: rock You chose rock, computer chose scissors. You win!

💡 Explanation of Each Line

- Enter rock, paper or scissors: rock
 - This line is displayed by the program using input().
 - It prompts the user to enter their choice.
 - The user types rock (input is caseinsensitive if .lower() is used).

Code:

user_choice = input("Enter rock, paper or scissors: ").lower()

You chose rock, computer chose scissors.

- · After the user inputs their choice, the computer picks randomly using the random.choice() function.
- o Then, the program prints both the user's and computer's choices.

Code:

computer_choice = random.choice(choices) print(f"You chose {user_choice}, computer chose {computer_choice}.")

- Here, let's assume the computer randomly picked scissors.
- The output becomes: "You chose rock, computer chose scissors."

3 You win!

- The program uses if-elif-else conditions to determine the result.
- It compares user_choice (rock) and computer_choice (scissors).
- · According to the rules:
 - Rock beats Scissors, so the user wins.

Code:

```
if user_choice == computer_choice:
   print("It's a tie!")
elif (user_choice == "rock" and computer_choice == "scissors") or \
     (user_choice == "scissors" and computer_choice == "paper") or \
     (user_choice == "paper" and computer_choice == "rock"):
   print("You win!")
   print("Computer wins!")
```

Other Possible Outputs

Let's look at all possible outcomes with different inputs:

Case 1: Tie

Enter rock, paper or scissors: paper You chose paper, computer chose paper. It's a tie!

Case 2: You win

Enter rock, paper or scissors: scissors You chose scissors, computer chose paper. You win!

Case 3: Computer wins

Enter rock, paper or scissors: paper You chose paper, computer chose scissors. Computer wins!

Invalid Input (Optional Feature)

If you add input validation, you can also show:

Enter rock, paper or scissors: pen Invalid input. Please enter rock, paper, or scissors only.

Code (optional check):

if user_choice not in choices: print("Invalid input. Please enter rock, paper, or scissors only.")