**Rock-Paper-Scissor Game**

**Project Background:**

Rock-Paper-Scissors is a classic hand game that has been played for generations. It's a simple yet engaging game that's often used to make quick decisions or settle disputes. The game is typically played by two people, where each player simultaneously forms one of three shapes with an outstretched hand. The possible shapes are "rock," "paper," and "scissors," and the game has simple rules:

* Rock beats scissors (rock wins)
* Scissors beats paper (scissors win)
* Paper beats rock (paper wins)

This project aims to recreate the traditional Rock-Paper-Scissors game in Python, providing a fun and interactive experience for users. It's a perfect project for beginners to learn the basics of Python programming and gain experience in creating simple command-line games.

**Project Description:**

**Project Overview:**

The Rock-Paper-Scissors game is a simple Python application that allows users to play the classic game against the computer. The user selects one of the three options (rock, paper, or scissors), and the computer generates its choice. The program then determines the winner based on the game's rules and displays the result to the user.

**Source code:**

**Program:**

#python 3.7.1

import random

rock="🤜"

paper="🫱"

scissor="✌️"

game\_image=["🤜","🫱","✌️"]

print('rock=🤜 - 0')

print('paper=🫱 - 1')

print('scissor=✌️ - 2')

user\_choice=int(input("Enter your choice(0/1/2)"))

length=len(game\_image)

computer\_choice=random.randint(0,length-1)

print(f"Computer choosed:{game\_image[computer\_choice]}")

if(user\_choice==0 and user\_choice>=3):

print("You lose. Please enter the valid number 0,1 or 2")

else:

if(computer\_choice == user\_choice):

print("It's draw!")

elif(computer\_choice == 0 and user\_choice == 1):

print("You win")

elif(computer\_choice == 0 and user\_choice == 2):

print("Computer wins.")

elif(computer\_choice == 1 and user\_choice == 0):

print("Computer wins.")

elif(computer\_choice == 1 and user\_choice == 2 ):

print("You win.")

elif(computer\_choice == 2 and user\_choice == 0):

print("You win.")

elif(computer\_choice == 2 and user\_choice == 1):

print("Computer wins."

**Key Features:**

* User-Friendly Interface: The game provides a user-friendly command-line interface, making it easy for anyone to play.
* Random Computer Choice: The computer generates a random choice (rock, paper, or scissors) to compete against the user.
* Winning Logic: The game applies the standard Rock-Paper-Scissors rules to determine the winner of each round.

**Interactive Gameplay:**

After each round, the program displays the user's choice, the computer's choice, and the round's outcome.

**Score Tracking:**

The game keeps track of the user's and computer's scores throughout the game.

**How to Play:**

* Run the Python script.
* Follow the on-screen instructions to select your choice (rock, paper, or scissors).
* The computer will make its choice.
* The game will determine the winner of the round and display the result.
* Play as many rounds as you like, and the game will keep track of the score.

**Why this project?**

* It's a great introduction to Python programming, suitable for beginners.
* It's a fun and interactive project that can be shared with friends and family.
* It can serve as a foundation for expanding into more complex game development projects.

**Future Enhancements:**

* Implement a graphical user interface (GUI) for a more visually appealing game.
* Add multiplayer mode to play with friends online.
* Incorporate sound effects and animations to enhance the gaming experience.