

# Python Mini Project

## Project-18

Rock ,Paper and Scissor: Among three choices paper , scissor and rock user gives his/her choice. And computer choose its own choice .

### Solution Code-

```
import random
user_score=0
cpu_score=0
while True:
    user_action = input("Enter a choice (Rock, Paper, Scissors): ")
    user_action = user_action.capitalize()
    possible_actions = ["Rock", "Paper", "Scissors"]
    computer_action = random.choice(possible_actions)
    print(f"\nYou chose {user_action}, computer chose {computer_action}.\n")

    if user_action == computer_action:
        print(f"Both players selected {user_action}. It's a tie!")

    elif user_action == "Rock":
        if computer_action == "Scissors":
            print("Rock smashes Scissors! You win!")
            user_score+=1

        else:
            print("Paper covers Rock! You lose.")
            cpu_score+=1

    elif user_action == "Paper":
        if computer_action == "Rock":
            print("Paper covers Rock! You win!")
```

```

        user_score+=1

    else:
        print("Scissors cuts Paper! You lose.")
        cpu_score+=1

elif user_action == "Scissors":
    if computer_action == "Paper":
        print("Scissors cuts Paper! You win!")
        user_score+=1

    else:
        print("Rock smashes Scissors! You lose.")
        cpu_score+=1

play_again = input("Play again? (y/n): ")
if play_again.lower() != "y":
    print(f'''\nFinal Score:
           CPU:{cpu_score}
           User:{user_score}\n''')
    break

```

## **Output-**

```
runfile('C:/Users/HP/untitled23.py', wdir='C:/Users/HP')
```

Enter a choice (Rock, Paper, Scissors): ROCK

You chose Rock, computer chose Scissors.

Rock smashes Scissors! You win!

Play again? (y/n): y

Enter a choice (Rock, Paper, Scissors): Scissors

You chose Scissors, computer chose Scissors.

Both players selected Scissors. It's a tie!

Play again? (y/n):

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