```
import random
   import tkinter as tk
2
3
   # Initialize the Tkinter window
   root = tk.Tk()
5
   root.title("Rock-Paper-Scissors Game")
   root.state("zoomed") # Maximizing the window
   root.config(bg= "gray70")
8
9
   # Instructions text
10
   instructions ="""Welcome to the classic Rock-Paper-Scissors game!
11
12
    Rules:
13
    -Rock beats Scissors.
14
   -Scissors beat Paper.
15
    -Paper beats Rock.
16
   How to Play:
17
18
    Enter rock, paper, or scissors when prompted.
19
   The computer will pick randomly.
20
    Results and scores are shown after each round.
21
   Try to outsmart the computer and score the most points. Good luck!"""
22
23
   # Label for instructions
   label1 = tk.Label(root, text=instructions, font=("Arial", 12, "bold"), bg="gray80", justify="center",borderwidth= 1, relief= "solid")
25
   label1.pack(pady=20)
26
27
   # Score variables
28
   user score = 0
29
30
    computer score = 0
31
   # Display the scores
32
    score label = tk.Label(root, text=f"Your Score: {user score}\n Computer Score: {computer score}",
33
               font=("Arial", 15) , bg="gray60", borderwidth= 2, relief= "solid")
34
   score label.pack(pady=10)
35
36
37 | # Result label
```

```
result label = tk.Label(root, text="", font=("Arial", 14, "bold"), bg="gray70")
   result label.pack(pady=10)
39
40
   # Function to update the result and scores
41
   def game rps(user choice):
42
43
        global user score,computer score
44
        all choices = ['rock', 'paper', 'scissors']
45
        computer choice = random.choice(all choices)
46
47
        if user choice == computer choice:
48
            result = "It's a tie!"
49
50
        elif user choice == "rock" and computer choice == "scissors" or \
51
           user choice == "paper" and computer choice == "rock" or \
52
           user choice == "scissors" and computer choice == "paper":
53
                result = "You win!"
54
55
                user score += 1
56
        else:
57
            result = "You lose!"
            computer score += 1
58
59
        # Update the result and score labels
60
        result label.config(text= f"You choose: {user choice.capitalize()}\n Computer choose: {computer choice.capitalize()}\n {result}",
61
                            justify= "center", borderwidth= 2, relief= "solid")
62
        score label.config(text= f"Your Score: {user score} \n Computer Score: {computer score}")
63
64
   # Button functions for rock, paper, scissors
65
    def choose rock():
66
        game rps("rock")
67
68
   def choose paper():
69
        game rps("paper")
70
71
   def choose scissors():
72
        game rps("scissors")
73
74
```

```
75 # Buttons for user choice
76 rock button = tk.Button(root, text= "Rock", font= ( "Arial", 14, "bold"), command= choose rock)
   rock button.place(x=450, y=450)
77
78
   paper button = tk.Button(root, text= "Paper", font= ( "Arial", 14, "bold"), command= choose paper)
79
80
   paper button.place(x=600, y=450)
81
   scissors button = tk.Button(root, text= "Scissors", font= ( "Arial", 14, "bold"), command= choose scissors)
82
   scissors button.place(x=750, y=450)
84
   # Play Again Button
85
   def play game():
86
87
        global user_score,computer score
88
        user score = 0
89
        computer score = 0
90
        score label.config(text= f"Your Score: {user score}\nComputer Score: {computer score}")
91
        result label.config(text= "")
92
93
   # Play Again Button
94
   play again button = tk.Button(root, text= "Play Again", font= ( "Arial", 15, "bold"), command= play game, bg= "dim gray")
95
   play again button.place(x = 580, y = 530)
96
97
98 # Run the Tkinter event loop
99 tk.mainloop()
```

## **OUTPUT:**

