Task 3:- Rock-Paper-Scissors Game Code:-

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import random
import tkinter as tk
from tkinter import messagebox
import winsound
def play sound(sound file):
  winsound.PlaySound(sound file, winsound.SND ASYNC)
def generate computer choice():
  return random.choice(["rock", "paper", "scissors"])
class RockPaperScissorsApp:
  def __init__(self, root):
    self.root = root
     self.root.title("Rock Paper Scissors")
    # Set initial background color
     self.root.configure(bg="#f0f0f0")
    # Title label
     self.title_label = tk.Label(root, text="Rock Paper Scissors", font=("Helvetica", 24, "bold"),
bg="#f0f0f0", fg="#333333")
     self.title label.pack(pady=10)
    # User's choice label
     tk.Label(root, text="Your Choice:", font=("Helvetica", 16), bg="#f0f0f0",
fg="#333333").pack(pady=5)
     # Buttons for user's choice
     self.user choice = tk.StringVar()
     self.user_choice.set("")
     choices frame = tk.Frame(root, bg="#f0f0f0")
     choices frame.pack(pady=5)
     tk.Radiobutton(choices frame, text="Rock", variable=self.user choice, value="rock",
font=("Helvetica", 14), bg="#f0f0f0", fg="#333333").pack(side=tk.LEFT, padx=10)
     tk.Radiobutton(choices frame, text="Paper", variable=self.user choice, value="paper",
font=("Helvetica", 14), bg="#f0f0f0", fg="#333333").pack(side=tk.LEFT, padx=10)
    tk.Radiobutton(choices frame, text="Scissors", variable=self.user choice,
value="scissors", font=("Helvetica", 14), bg="#f0f0f0", fg="#333333").pack(side=tk.LEFT,
padx=10)
```

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# Play button
     tk.Button(root, text="Play", command=self.play game, font=("Helvetica", 16),
bg="#4CAF50", fg="white", activebackground="#45a049").pack(pady=10)
     # Result label
     self.result_label = tk.Label(root, text="", font=("Helvetica", 16, "bold"), bg="#f0f0f0",
fg="#333333")
     self.result label.pack(pady=10)
  def play game(self):
     user_choice = self.user_choice.get()
    if user choice == "":
       messagebox.showwarning("Invalid Choice", "Please select an option.")
       return
     computer choice = generate computer choice()
     result = ""
     if user choice == computer choice:
       result = "It's a tie!"
       bg color = "#f0f0f0"
       fg color = "#333333"
     elif (user_choice == "rock" and computer_choice == "scissors") or \
       (user choice == "paper" and computer choice == "rock") or \
       (user choice == "scissors" and computer choice == "paper"):
       result = "You win!"
       bg_color = "#7CFC00"
       fg_color = "#FFFFFF"
       play_sound("win.wav")
     else:
       result = "You lose!"
       bg color = "#FF6347"
       fg color = "#FFFFFF"
       play sound("lose.wav")
     self.result_label.config(text=f"Computer's Choice: {computer_choice.capitalize()}\n{result}")
     self.title_label.config(bg=bg_color, fg=fg_color)
if __name__ == "__main__":
  root = tk.Tk()
  app = RockPaperScissorsApp(root)
  root.mainloop()
```

Output:-

