🎮 Programming Assignment

Question:

Write a C program to create an interactive game of *Rock, Paper, Scissors, Lizard, Spock* using *functions, loops, and conditionals (if/else or switch)* without using arrays.

Objective:

- Practice *functions* to separate logic (menu, rules, winner check).
- Practice *loops* to handle multiple rounds and replay option.
- Use *conditionals* to check the winner.
- Apply *random number generation* for computer moves.
- Strengthen problem-solving skills with game logic.

Rules of the Game:

1. The game starts with a *menu*:

   - 1 → Play Game
   - 2 → Show Rules
   - 3 → Exit

2. Player chooses a number between *1–5*:

   - 1 → Rock
   - 2 → Paper
   - 3 → Scissors
   - 4 → Lizard
   - 5 → Spock

3. *Winning Rules:*

   - Rock crushes Scissors & Lizard
   - Paper covers Rock & disproves Spock
   - Scissors cut Paper & decapitate Lizard
   - Lizard poisons Spock & eats Paper
   - Spock smashes Scissors & vaporizes Rock

4. The match is played for *5 rounds (Best of 5)*.

   - Track *Player Wins, Computer Wins, and Draws*.
   - After 5 rounds, display the *Final Winner*.

Sample Input / Output

Case 1: Showing Rules

=== ROCK PAPER SCISSORS LIZARD SPOCK ===

1. Play Game
2. Rules
3. Exit Enter choice: 2

RULES OF THE GAME: 1 = Rock, 2 = Paper, 3 = Scissors, 4 = Lizard, 5 = Spock

- Rock crushes Scissors & Lizard
- Paper covers Rock & disproves Spock
- Scissors cut Paper & decapitate Lizard
- Lizard poisons Spock & eats Paper
- Spock smashes Scissors & vaporizes Rock

Case 2: Playing the Game

=== ROCK PAPER SCISSORS LIZARD SPOCK ===

1. Play Game
2. Rules
3. Exit Enter choice: 1

Round 1: Enter your choice (1=Rock, 2=Paper, 3=Scissors, 4=Lizard, 5=Spock): 2 Computer chose: 5 Paper disproves Spock → You Win! Score: Player=1, Computer=0, Draw=0

Round 2: Enter your choice: 1 Computer chose: 3 Rock crushes Scissors → You Win! Score: Player=2, Computer=0, Draw=0

Round 3: Enter your choice: 4 Computer chose: 2 Lizard eats Paper → You Win! Score: Player=3, Computer=0, Draw=0

Final Result after 5 rounds: Player = 3 | Computer = 0 | Draw = 0 🎉 Congratulations! You Won the Match!

Case 3: Exit Option

=== ROCK PAPER SCISSORS LIZARD SPOCK ===

1. Play Game
2. Rules
3. Exit Enter choice: 3

Exiting the game... Goodbye!