Project 6

Planning:

1. **Display Welcome Message**

   ○ Print "Game Starting Now!" to let the players know the game has begun.

2. **Get Player 1's Input**

   ○ Display a prompt asking Player 1 to enter 'R', 'P', 'S', 'L', or '$'.
   ○ Read the character input from Player 1 and store it.
   ○ Read and discard the newline character.

3. **Get Player 2's Input**

   ○ Display a prompt asking Player 2 to enter 'R', 'P', 'S', 'L', or '$'.
   ○ Read the character input from Player 2 and store it.
   ○ Read and discard the newline character.

4. **Compare the Inputs**

   ○ If Player 1 and Player 2 chose the same character, print "It's a tie!" and end the game.

5. **Determine the Winner**

   ○ If Player 1 chose Rock ('R'):
     ■ Rock beats Scissors and Lizard → Player 1 wins.
     ■ Otherwise, Player 2 wins.
   ○ If Player 1 chose Paper ('P'):
     ■ Paper beats Rock and Spock → Player 1 wins.
     ■ Otherwise, Player 2 wins.
   ○ If Player 1 chose Scissors ('S'):
     ■ Scissors beats Paper and Lizard → Player 1 wins.
     ■ Otherwise, Player 2 wins.
   ○ If Player 1 chose Lizard ('L'):
     ■ Lizard beats Paper and Spock → Player 1 wins.
     ■ Otherwise, Player 2 wins.
   ○ If Player 1 chose Spock ('$'):
     ■ Spock beats Rock and Scissors → Player 1 wins.
     ■ Otherwise, Player 2 wins.
6. **Display the Result**

○ Print "Player 1 wins!" if Player 1 wins.
○ Print "Player 2 wins!" if Player 2 wins.

7. **Handle Invalid Inputs**

○ If Player 1's choice does not match 'R', 'P', 'S', 'L', or '$', end the game without printing a message.

8. **End the Game**

○ Restore registers and return control to the system.

Follow-up questions:

1. 2 days, Zainab
2. Yes
3. Implementing user input handling, decision making logic, and function calls
4. Ensuring proper comparison of inputs
5. We structured the solution by setting up input handling for player choices, using conditional comparisons to determine the winner based on the game rules, and displaying the appropriate result.
6. We used AI to help understand the interactions for Spock and Lizard in the game.

   Also I got error in makefile. I use chat gpt to solve the error. It was syntax error