Osama Abdo modhish

Rock Paper Scissors Game Algorithm

- 1. Import the `random` module.
- 2. Define a function called 'get_user_choice' that takes no parameters:
 - Prompt the user to enter their choice of rock, paper, or scissors.
 - Convert the input to lowercase.
 - If the input is not one of the valid choices, prompt the user again until a valid choice is entered.
 - Return the user's choice.
- 3. Define a function called 'get_computer_choice' that takes no parameters:
 - Create a list of valid choices: rock, paper, and scissors.
 - Use the `random.choice()` function to randomly select an item from the choices list.
 - Return the computer's choice.
- 4.Define a function called 'determine_winner' that takes two parameters
 - : 'user_choice' and 'computer_choice':
 - If the user's choice is the same as the computer's choice, return "It's a tie!".
 - If the user's choice is rock:
 - If the computer's choice is paper, return "Computer wins!".
 - Otherwise, return "You win!".
 - If the user's choice is paper:
 - If the computer's choice is scissors, return "Computer wins!".
 - Otherwise, return "You win!".
 - If the user's choice is scissors:
 - If the computer's choice is rock, return "Computer wins!".
 - Otherwise, return "You win!".
- 5. Define a function called 'play_game' that takes no parameters:
 - Print a welcome message.
 - Start an infinite loop:
 - Call the `get_user_choice` function to get the user's choice.
 - Call the `get_computer_choice` function to get the computer choice.
 - Print the user's choice and the computer's choice.
 - Call the 'determine_winner' function to determine the winner and print the result.
 - Prompt the user if they want to play again.
 - If the input is "no", print The Game is Over and break out of the loop.
- 6. Call the 'play_game' function to start the game.