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Program: soccerStats.py.
"""

# Global variable to store the list of player statistics
listOfStats = []

def ProcessStatsFile():
    # Ask the user for the path to the file
    file_path = input("Enter the path to the stats file: ")

    try:
        # Open the file and read each line
        with open(file_path, 'r') as file:
            for line in file:
                # Split each line into a list of stats and append to listOfStats
                player_stats = line.strip().split(',')
                listOfStats.append(player_stats)

        # Print the number of players processed
        print(f"Number of players processed: {len(listOfStats)}")

    except FileNotFoundError:
        print("The file was not found. Please check the path and try again.")
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def CalculateCardTotal():
    total_cards = 0

    # Loop through each player stat in listOfStats
    for stats in listOfStats:
        # Add the number of yellow and red cards to the total
        total_cards += int(stats[14]) + int(stats[15])

    # Print the total number of cards issued to the team
    print(f"Total number of cards issued to the team: {total_cards}")

def FindBestGoalToShotRatio():
    best_ratio = 0
    best_player = ("", "", 0)  # (First Name, Last Name, Ratio)

    # Loop through each player stat in listOfStats
    for stats in listOfStats:
        goals = int(stats[5])
        shots = int(stats[7])

        # Compute the goal-to-shot ratio
        if shots > 0:  # Avoid division by zero
            ratio = goals / shots
            # Check if this player has the best ratio
            if ratio > best_ratio:
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            best_ratio = ratio
            best_player = (stats[0], stats[1], ratio)


    # Print the player's name and their goal-to-shot ratio as a percentage
    print(f"Best goal-to-shot ratio: {best_player[0]} {best_player[1]} with a ratio of {best_player[2] * 100:.2f}%"
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