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**Submitted To:**

**Teacher’s Name:** Mr. Nahid Hasan

**Designation:** Lecturer

**Department:** Computer Science and Engineering

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**Topic:**  Assignment on ‘Football Match Analysis Program’

**Course Title:** Programming and Problem Solving

**Course Code:** CSE 113

**ASSIGNMENT**

"Football Match Analysis Program"

This C program serves as a Football Match Analysis tool, allowing users to input match results, analyze the outcomes, and determine which team won more matches. Let's break down the code into key components:

1. **Initialization:** The program initializes two arrays, **Team1Goals** and **Team2Goals**, to store the number of goals scored by Team 1 and Team 2 in each match, respectively. The **matchCount** variable keeps track of the total number of matches played.
2. **Menu-driven Loop:** The program operates within an infinite loop, presenting users with options to either enter match results or exit the program.
3. **Option Handling:** If the user chooses option 2, the program breaks out of the loop, terminating execution. If the option is neither 1 nor 2, it prompts the user to enter a valid option and continues to the next iteration.
4. **Entering Match Results:** Users can input match results for both teams. The program checks if the maximum number of matches (10) has been reached and informs the user if so.
5. **Match Analysis:** Once the user exits the input loop, the program proceeds to match analysis. It uses a for loop to compare the goals scored in each match and determine which team won more matches.
6. **Displaying Results:** The code displays the following results:

* The total number of matches played.
* The total number of goals scored by each team.
* The team that won more matches.
* If one team won more, it shows how many more matches they won.

Finally, the program outputs the total number of matches played and determines which team won more matches or if there's an equal number of victories.

This program provides a simple yet effective tool for tracking and analyzing football match results, making it a valuable resource for sports enthusiasts and analysts.

This **Football Match Analysis Program** provides a straightforward and functional solution for tracking match results and determining team performance. Its simplicity makes it easy to use, while the core functionalities can be extended to meet specific needs. As a starting point, future iterations of this program could explore additional features such as enhanced error handling, a user-friendly interface, and advanced statistical analysis. This program serves as a stepping stone for further development and customization, making it a valuable tool for both casual users and those seeking a foundation for more sophisticated football analysis applications.