

**Coding Assignment 1 – Fantasy Sport Statistics****Due Date: BEFORE UNIT 1 TEST**

Read the article: <https://thisisstatistics.org/statistics-behind-fantasy-football/>

**Driving Question: You want to create an app (program) to calculate your fantasy team stats.**

Refer to <https://www.fantasypros.com/scoring-settings/> for scoring guidelines for football – you may use any sport you like, including eSports. No two assignments should match.

- ❖ Print out the type of sport you've chosen and your made up scoring guidelines for that sport.
- ❖ Create 2 fantasy teams. At a minimum, each team should consist of 3 members. Ask the user the name of their team and then input the names for each player. Calculate each player's stats **randomly**. **Make sure you use the scoring guidelines you defined when calculating the stats.** Total the points for each player AND the total for your team.
- ❖ Output the team name, roster with each player on one line with their points, and then line with total points labeled and calculated. (Make sure to do this for both teams)
- ❖ Determine a winner and output that to the screen
- ❖ Create a logo that prints out for the winning team

A Java template can be found on Schoology (Unit #1). All submissions will be done through Schoology. Submit only the **.pdf** file. **Do NOT turn in code that does not COMPILE** – it will NOT be graded or earn any credit. If you have questions about code, ATTACH your file to an email and send to [pclaguna@fcps.edu](mailto:pclaguna@fcps.edu).

Grading rubric out of 40 points:

Scoring guidelines for league shown and are understandable to user (minimum of 3 ways to score):  
*3 points*

Asks for player names/input correct: *2 points*

Must use at least 3 variables: *2 points*

Must use at least 3 numbers for calculation stats: *2 points*

Must use Math.random() with a starting number >0: *2 points*

Must use Math.random() with at least 2 different ranges: *2 points*

Calculations follow scoring guidelines for each player: *3 points*

Output team stats and total: *3 points*

Output combines Strings and numeric types: *2 points*

Team total correct: *2 points*

Determine a winner with the 2 teams and print to the screen: *2 points*

Include Ascii art for the winning team logo: *5 points*

Output formatted nicely (tabs, spaces): *2 points*

Braces aligned and spelling on output correct: *3 points*

Make sure your code includes comments and the header/algorithm: *5 points*

## EXAMPLE 1

//Scoring guidelines and sport name printed out here

**What is the name of the fantasy team?**

Football 100

**What is the Running Back's name?**

Taylor

**What is the Wide Receiver's name?**

Smith

**What is the Quarterback's name?**

Nelson

**Team Football 100:**

**Running Back, Taylor, with 49 points**

**Wide Receiver, Smith, with 150 points**

**Quarterback, Nelson, with 47 points**

**Team Football 100 total: 246**

**What is the name of the fantasy team?**

Football 200

**What is the Running Back's name?**

Gavin

**What is the Wide Receiver's name?**

Thompson

**What is the Quarterback's name?**

Kim

**Team Football 200:**

**Running Back, Gavin, with 63 points**

**Wide Receiver, Thompson, with 149 points**

**Quarterback, Kim, with 33 points**

**Team Football 200 total: 245**

**Which team scored more points?**

Football 100

**Football 100 wins!**

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## EXAMPLE 2

Scoring guidelines miniature golf fantasy league:

20 points per hole in one

5 extra points for each point under par that was not a hole in one

50 points for hole in one on last whole

What is the first team's name?

Top Golfers

Calculating scores for Top Golfers

What is the first player's name?

Anna

Anna scored 240 points for Top Golfers

what is the second player's name

Damien

Damien scored 270 points for Top Golfers

what is the third player's name

Jake

Jake scored 90 points for Top Golfers

Team Top Golfers has 600 points in all

What is the second team's name?

Precise Putters

Calculating scores for Precise Putters

What is the first player's name?

Melinda

Melinda scored 55 points for Precise Putters

what is the second player's name

Nance

Nance scored 170 points for Precise Putters

what is the third player's name

Timone

Timone scored 305 points for Precise Putters

Team Precise Putters has 530 points in all

Which team won?

Top Golfers

Top Golfers Team logo:

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