

# CS 12 - Assignment 7

## Classes

### Due Friday, March 6

In this assignment you will be using classes. Be sure to do a good job on the assignment as you will be using it in future assignments. You must divide your program up into separate files and turn in a makefile with your code. Be sure to include all necessary information at the top of your program and use good commenting and style throughout. You must use linux to do this assignment.

Write a class to maintain information about a sport's team. You should include the following data members:

**Team Name** The name of the sport's team. The name should be able to be more than one word.

**Number of Games** This data member should keep track of the number of games the team has played for the current season.

**Number of Wins** The number of wins during the current season.

**Number of Losses** The number of games lost during the current season.

Your class should also contain the following function members:

**Display** Print all the data members nicely formatted.

**Show Stats** Calculate and return the percentage of games that have been won for the current season. The result should be a floating point number.

**Play a Game** Update the number of games and either the wins or losses. This function should take one character specifying whether the game was won or lost.

You should also have a constructor which takes the name of the team.

Write a short main program which allows the user to give the name for the team and then creates a sport's team object. A menu of the above options should be given to the user to choose from that allows the user to continue choosing options until they decide to quit.