

# **Information Systems 107**

## ***Programming and Application Development***

### **Programming Project 8**

#### Project Directions

This is an individual programming project.

For this project you will complete Chapter 8, Project 6, Baseball as described on page 451. You will create a form and write the event code to create a program to enables a user to select a baseball team and display the players from that team whose batting average was above the average of his teammates' batting averages that are listed in an XML file. The form is shown on page 451 in Figure 8.45. The program requirements and calculations are also described on page 451. Choose meaningful names for the form, the controls on the form, and the event procedure variables.

#### Grading

Hard copy

- You do not need to print out any part of your project for grading.

Executable files

- Create a folder named LastNamePP8 (in zip format) that will contain all of the files for your project. Your last name is included in the folder name so that each folder name is unique.
- Upload your zipped folder in the course Blackboard page content area in the assignment named Upload Completed PP8 Folder.

80 points possible

#### Program Design Suggestions

- Use XElement to load the XML file data into a player data variable
- Use a form load procedure to display the list of teams in the list box so that the user can choose a valid team name
- Use a selected index changed procedure to identify which team has been selected, and which players are on that team, so that their names and batting averages can be displayed

**Program testing examples on next page.**

## Example Programming Project 8 Output

The BaseballBattingAverages.xml file you were given does not produce the example output shown in Figure 8.45. The screen shots below show four examples to test your program using the current BaseballBattingAverages.xml file.

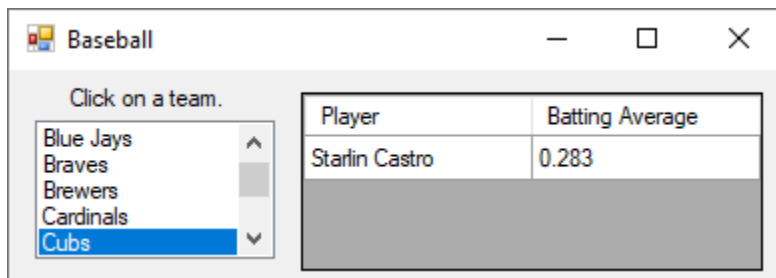


Baseball

Click on a team.

- Angels
- Astros
- Athletics**
- Blue Jays
- Braves

Player	Batting Average
Yoenis Cespedes	0.292
Coco Crisp	0.259

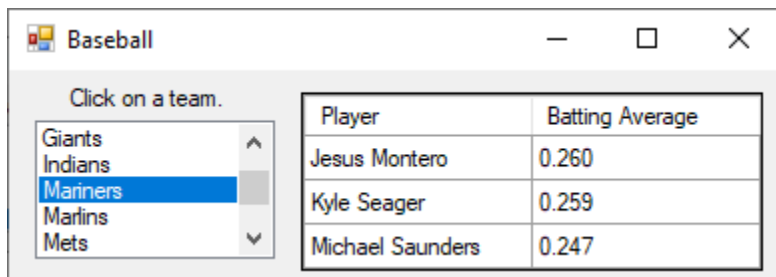


Baseball

Click on a team.

- Blue Jays
- Braves
- Brewers
- Cardinals
- Cubs**

Player	Batting Average
Starlin Castro	0.283

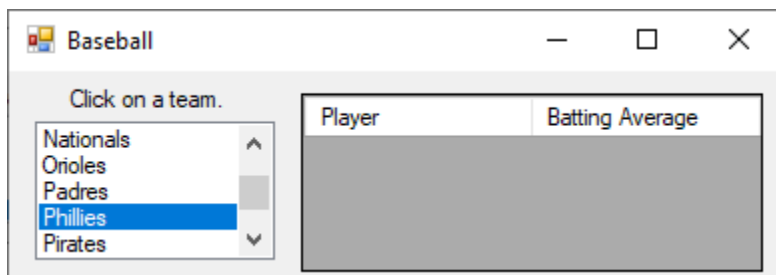


Baseball

Click on a team.

- Giants
- Indians
- Mariners**
- Marlins
- Mets

Player	Batting Average
Jesus Montero	0.260
Kyle Seager	0.259
Michael Saunders	0.247



Baseball

Click on a team.

- Nationals
- Orioles
- Padres
- Phillies**
- Pirates

Player	Batting Average
--------	-----------------