Assignment 9

Please submit the following java programs in a zipped folder on Canvas:

- Video Game Inventory:
 - o Video Game Class (20 pts) Video Game.java
 - Video game Collection (30 pts)
 GameCollection.java
 - Video Game Driver (10 pts)

 VGDriver.java

Remember to include the pledge as a comment in every single file that you submit, followed by your name and U number.

"I pledge my Honor that I have not cheated, and will not cheat, on this assignment" [insert name here], [insert U-number here]

Not including the pledge will result in a **50%** deduction of points for every file that does not have it. And no, putting one pledge as a comment on Canvas does not count.

Video Game Inventory

On canvas, you received an Array of Objects example that shows you how to manage a DVD collection. Modify that code so that it manages a Videogame collection instead.

You will need to perform the following steps:

Using the DVD class as a template:

- 1. Create a class called VideoGame that has the following private members:
 - Game title (String)
 - Game publisher (String)
 - Year the game was released (int)
 - Platform the game is played on (String)
 - Price of the game (double)
 - Completed status (boolean)
- 2. Modify the constructor so that it sets up a VideoGame object
- 3. Modify the toString so that it displays the contents of the VideoGame object
 - Modify the if statement so that if the status is true, add the string "Finished" to the data.

Using the DVDCollection class as a template:

- 1. Create a class called GameCollection that has the following private members:
 - An array of VideoGame objects
 - Amount of games (int)
 - total cost of games (double)
- 2. Modify the constructor so that it creates a VideoGame array of size 100
 - Keep the initial values of count and totalValues from the template
- 3. Modify the addDVD method (call it addGame) so that it accepts the 6 corresponding parameters for a video game to set up a VideoGame object
- 4. Modify the toString method to Display information for the VideoGame collection
- 5. Modify the increaseSize method so that it doubles the size of the VideoGame array if needed

Using the Movie class is as template:

- 1. Create a driver program called GameDriver, that tests your VideoGame Array object
- 2. Use the addGame method to add at least three games to the array
- 3. Check the contents of the array
- 4. Add at least one more game to the array using the addGame method
- 5. Check the updated contents of the array

A sample of the output is shown below:

My Video Game Collection

Number of Games: 3 Total cost: \$60.97 Average cost: \$20.32

Video Game List:

\$15.99	1997	Final Fantasy VII	Square Enix		PlayStation	Finished!
\$19.99	2004	Ninja Gaiden	Ubisoft	Xbox		
\$24.99	2005	Kingdom Hearts II	Square	e Enix	PlayStation 2	Finished!

My Video Game Collection

Number of Games: 4 Total cost: \$82.92 Average cost: \$20.73

Video Game List:

\$15.99	1997	Final Fantasy VII	Square E	Enix	PlayStation	Finished!
\$19.99	2004	Ninja Gaiden	Ubisoft	Xbox		
\$24.99	2005	Kingdom Hearts II	Square	Enix	PlayStation 2	Finished!
\$21.95	2013	Tomb Raider	Square Enix	Pla	yStation 3	