

## Final Practice Practical Exam

This is an individual examination. You may not receive assistance from any source. Copied work will be considered plagiarism and dealt with according to the syllabus and university policy.

**Objective:** For this assignment, you will demonstrate your ability to refactor existing Java code by modifying a standard Java class to provide object state values as HTML code. You will also demonstrate creating a Java servlet suitable for handling requests associated with this Java class while conforming to all convention and expectations.

**Description:** Given the Driver class and base structure for a Java servlet with an associated resource class, create the necessary code to provide an HTML table of object state using data retrieved from a database server.

**Assignment:**

- Using the DriverPractice.java MoviePractice.java MoviesHTMLPractice.java class code files attached to this practice exam in Blackboard, refactor the code to include the following new functionality:
  - Implement the .toHTML() method in the MoviePractice resource class that facilitates usage with the MoviesHTMLPractice servlet class
  - Implement the .doGet() method in the MoviesHTMLPractice servlet class such that it connects to UCA's database server using the uca-database-wrapper.jar and any other necessary 3<sup>rd</sup> party API library
    - The SQL query for this exercise is as follows:
      - SELECT TITLE, YEAR, ROTTENTOMATOESCRITIC, ROTTENTOMATOESAUDIENCE FROM MOVIES
  - Conform to all expectations and conventions including, but not limited to, encapsulation, object mutability, and code formatting.
- *Do not alter any of the existing code in the file unless necessary to achieve the above expectations, simply add the necessary code to accomplish the stated requirements*
- When properly implemented, the code should provide output similar to that shown below in Figure 1 when executed



Title:	Avengers: Infinity War
Year:	2018
Critic Rating:	84
Viewer Rating:	92
Title:	Incredibles 2
Year:	2018
Critic Rating:	93
Viewer Rating:	87
Title:	Ocean's 8
Year:	2018
Critic Rating:	67
Viewer Rating:	47
Title:	Jurassic World: Fallen Kingdom
Year:	2018
Critic Rating:	51
Viewer Rating:	57

Figure 1 - Expected output