

OBJECT ORIENTED PRINCIPLES.

A02_Part2: Encapsulation, Inheritance, Polymorphism and Abstraction.

On this second part of A02 a Java application covering the topics of encapsulation, inheritance, polymorphism and abstraction is proposed.

- The folder **src** contains the code of the Java application.
 - o MyMain.java => This class tests the functionality of A02_Part2. This class is provided completed, so you must not modify it.
 - o Movie.java => This class models a movie. You must complete this class.
 - o Drama.java => This class models a drama movie. You must complete this class.
 - o PeriodDrama.java => This class models a period drama movie. You must complete this class.
- The folder **javadoc** contains the documentation of the Java application.
 - o MyMain.html => This file contains the description of the class MyMain.java.
 - o Movie.html => This file contains the description of the class Movie.java. Use this file to guide you in completing the code of the file Movie.java.
 - o Drama.html => This file contains the description of the class Drama.java. Use this file to guide you in completing the code of the file Drama.java.
 - o PeriodDrama.html => This file contains the description of the class PeriodDrama.java. Use this file to guide you in completing the code of the file PeriodDrama.java.
- The folder **results** contains the expected results of the Java application.
 - o result_option_1.txt => This file contains the output obtained from running the lecturer's solution when using <option = 1> in the main method of MyMain.java. That is, when the Java application is used to test the functionality of the class Movie.
 - o result_option_2.txt => This file contains the output obtained from running the lecturer's solution when using <option = 2> in the main method of MyMain.java. That is, when the Java application is used to test the functionality of the class Drama.
 - o result_option_3.txt => This file contains the output obtained from running the lecturer's solution when using <option = 3> in the main method of MyMain.java. That is, when the Java application is used to test the functionality of the class PeriodDrama.

Actions:

1. Complete the classes Movie.java, Drama.java and PeriodDrama.
The classes must follow the description given by the Javadoc files Movie.html, Drama.html and PeriodDrama.html.

Submission Details:

- Submit a zip file with the folder 'src' (containing the classes Movie.java, Drama.java and PeriodDrama.java) to Canvas before Friday 8th of November, 1pm.
- Please ensure your code matches the expected output provided in the result folder (see rubric below).

Rubric:

- Movie::Constructor => 1 mark.
- Movie::Get and Set method => 1 mark.
- Movie::revenue() => 2 marks.

- Drama::Constructor => 2 marks.
- Drama::Get and Set method => 1 mark.
- Drama::revenue() => 1 mark.

- PeriodDrama::Constructor => 2 marks.
- PeriodDrama::Get and Set method => 1 mark.
- PeriodDrama::revenue() => 2 marks.
- PeriodDrama::revenue(boolean b) => 2 marks.