Festival

In your IDE of choice, create a new JavaScript file named festival.js and make it so that all code written in the file follows strict mode.

Create an anonymous immediately-invoking function that will hold the main execution of all program calls. Writing a simple command console.log(“Hi”) inside this function and running code should output “Hi“ in the console.

Create constructor functions with properties representing the following:

* **Genre** - name
* **Movie** - title, genre (instance of Genre), length
* **Program** - date, list of movies (initially empty) and total number of movies
* **Festival** - name, list of programs (initially empty), and number of movies in all programs

Add method **getData** to **Genre** which returns formatted string as first and last letter of genre name

"Action" -> AN

"Drama" -> DA

"Comedy" -> CY

Add **getData** method to **Movie**. It should return a formatted string consisting of the movie title, length and genre acronym.

The Shawshank Redemption, 130min, AN

Add **addMovie** method to **Program**. It should receive a **Movie** and add the movie to the movie list of a given program.

Add **addProgram** method to **Festival**. It should receive a **Program** and add the program to the list of the given festival’s programs.

Add **getData** method to **Program**. It should return a formatted string of all data related to the program. The string should contain date, program length (calculated from length of all movies in a list) and data about movies in a list (see the example below). To display movie data, use Movie’s getData method.

Date, program length from all movies

First movie title, length and genre

Second movie title, length and genre

Third movie title, length and genre

Fourth movie name and length and genre

Add method **getData** to **Festival** which return formatted string like festival name, number of movies in all programs and all programs listed. Use Programs **getData** method to list all programs. (example output is shown below)

Weekend festival has 4 movie titles

28.10.2017, program duration 368min

Spider-Man: Homecoming, 133min, AN

War for the Planet of the Apes, 140min, DA

The Dark Tower, 95min, WN

29.10.2017, program duration 108min

Deadpool, 108min, CY

Inside your immediately-invoking function, add **createMovie** function that receives a movie title, movie length and genre (as a string) as parameters and returns a created **Movie**.

Inside your immediately-invoking function, add **createProgram** function that receives a date and returns a created **Program**.

Start creating your movie festival.

In your main program function, create an instance of the **Festival** object.

Create two instances of **Program** using **createProgram** function.

Create four instances of **Movie** object using **createMovie** function. Add all created movies to both programs using the **addMovie** method.

Add the created program instances to the created festival instance using festival’s **addProgram** method.

Display festival’s data using **getData** method.

**Hints**

* List is a synonym for array, so when we say a list of movies, it’s actually an array of movie objects
* Use JS built-in Date()object to create Date object
* Use \t and \n special strings to format output
* Use built-in String methods to transform text from lowercase to uppercase
* Use Array’s built-in methods to add and remove elements from an array