GameStore

Instruction:

- Develop a **GameStore** class that facilitates managing a video game inventory. This includes capabilities for adding games, searching within the inventory by game title or genre, and allowing customers to purchase games, which then removes them from the inventory.

Class Game::

Constructor

- constructor(id, title, genre, price):
 - Parameters: id type: number, title type: string, genre type: string, price type: number.
 - Initializes a new game instance with the specified id, title, genre, and price.

Properties

- **id**: A unique identifier for the game, type: Number.
- **title**: The title of the game, type: String.
- **genre**: The genre of the game (e.g., Action, Adventure, Puzzle), type: String.
- price: The selling price of the game, type: Number.

Class GameStore::

Constructor

- constructor(storeName):
 - Parameters: storeName type: string
 - Initializes a new instance of GameStore with a specified name and an **empty inventory.**

Properties

- storeName: The name of the game store, type: string.
- **inventory**: A collection of games available for sale, type: Array of Game objects.

Methods

- addGame(game: Game):
 - Parameters: game type: game object
 - Adds a new Game object to the inventory. Ensure the game has valid attributes before adding.

searchByTitle(title):

- Parameters: title type: string
- Searches the inventory for games matching a specific title and returns array of all matching games.

searchByGenre(genre):

- Parameters: genre type: string
- Finds and returns array of all games within a specified genre in the inventory.

purchaseGame(id)

- Parameters: id type: number
- Removes a game from the inventory by its ID and returns the game object. Validate the existence of the game before removal.

listInventory():

- Parameters: -
- Lists all games currently in the inventory.

updateGamePrice(id, newPrice):

- Parameters: id type: number, newPrice type: number,
- Updates the price of a game based on its id.

totalInventoryValue():

- Parameters: -
- Calculates and returns the total value of all games in the inventory.

listGenres():

- Parameters: -
- Lists all unique genres available in the inventory.

```
class Game {
class GameStore {
const store = new GameStore("Epic Game Store");
// Adding games to the inventory
store.addGame(new Game(1, "Game One", "Action", 59.99));
store.addGame(new Game(2, "Game Two", "Adventure", 49.99));
// Searching games by title
console.log(store.searchByTitle("One"));
// Searching games by genre
console.log(store.searchByGenre("Adventure"));
// Purchasing a game
console.log(store.purchaseGame(1));
// Listing the inventory
console.log(store.listInventory());
// Updating a game price
store.updateGamePrice(2, 39.99);
// Calculating total inventory value
console.log(store.totalInventoryValue());
// Listing all genres
console.log(store.listGenres());
```