Develop simple java and JS based program to show is-a, has-a, uses-a relationship

JAVA:

```
class Book {
 String title;
 String author;
 Book(String title, String author) {
  this.title = title;
  this.author = author;
 }
 void displayInfo() {
  System.out.println("Title: " + this.title);
  System.out.println("Author: " + this.author);
 }
}
class Library {
 Book[] books;
 Library(Book[] books) {
  this.books = books;
 }
 void displayAllBooks() {
  System.out.println("All Books in Library:");
  for (Book book : books) {
   book.displayInfo();
  }
}
class Librarian {
```

```
Library library;
 Librarian(Library library) {
  this.library = library;
 }
 void issueBook(String title) {
  System.out.println("Issuing book: " + title);
  for (Book book : library.books) {
   if (book.title.equals(title)) {
    System.out.println("Book issued: " + title);
    return;
   }
  }
  System.out.println("Book not found: " + title);
 }
}
public class Main {
 public static void main(String[] args) {
  Book book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald");
  Book book2 = new Book("To Kill a Mockingbird", "Harper Lee");
  Book book3 = new Book("1984", "George Orwell");
  Book[] books = {book1, book2, book3};
  Library library = new Library(books);
  Librarian librarian = new Librarian(library);
  library.displayAllBooks();
```

```
librarian.issueBook("To Kill a Mockingbird");
  librarian.issueBook("Pride and Prejudice");
 }
}
Javascript
class Book {
 constructor(title, author) {
  this.title = title;
  this.author = author;
 }
 displayInfo() {
  console.log("Title: " + this.title);
  console.log("Author: " + this.author);
 }
}
class Library {
 constructor(books) {
  this.books = books;
 }
 displayAllBooks() {
  console.log("All Books in Library:");
  this.books.forEach(book => {
   book.displayInfo();
```

});

```
}
}
class Librarian {
 constructor(library) {
  this.library = library;
 }
 issueBook(title) {
  console.log("Issuing book: " + title);
  for (let book of this.library.books) {
   if (book.title === title) {
    console.log("Book issued: " + title);
    return;
   }
  }
  console.log("Book not found: " + title);
 }
}
const main = () => {
 const book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald");
 const book2 = new Book("To Kill a Mockingbird", "Harper Lee");
 const book3 = new Book("1984 - 7811715", "George Orwell");
 const books = [book1, book2, book3];
 const library = new Library(books);
 const librarian = new Librarian(library);
 library.displayAllBooks();
```

```
librarian.issueBook("To Kill a Mockingbird");
librarian.issueBook("Pride and Prejudice");
};
main();
```

7811715