**717821l106**

**MINI PROJECT: "PERSONAL LIBRARY":**

**Week 2:**

**Code:**

**class Book {**

**constructor(title, author, yearpublished, readstatus){**

**this.title = title;**

**this.author = author;**

**this.yearpublished = yearpublished;**

**this.readstatus = readstatus;**

**}**

**getsummary(){**

**return `Title: ${this.title}, Author: ${this.author}, yearpublished: ${this.yearpublished}`;**

**}**

**togglereadStatus(){**

**this.readstatus=!this.readstatus;**

**}**

**}**

**let library=[];**

**function addBook(book){**

**library.push(book);**

**}**

**function removeLastBook(){**

**library.pop();**

**}**

**function addBookToFront(book){**

**library.unshift(book);**

**}**

**function removeFirstBook(){**

**library.shift();**

**}**

**function getAllTitles(){**

**return library.map(book => book.title);**

**}**

**function getBooksByAuthor(author){**

**return library.filter(book => book.author === author);**

**}**

**function getTotalBooksPublishedBefore(year) {**

**return library.filter(book=>book.yearpublished < year).reduce((acc,curr)=>acc+1, 0);**

**}**

**function removeBookByTitle(title){**

**const index = library.findIndex(book =>book.title === title);**

**if(index !== -1){**

**return library.splice(index,1);**

**}**

**}**

**function getBooksByReadStatus(status){**

**return library.filter(book => book.readstatus === status);**

**}**

**function getSubLibrary(start, end){**

**return library.slice(start, end);**

**}**

**addBook({ title: "My life", author: "F. Scott Fitzgerald", yearPublished: 1925 });**

**addBook({ title: "Run", author: "Harper Lee", yearPublished: 1960 });**

**addBook({ title: "My fault", author: "Jane Austen", yearPublished: 1813 });**

**removeLastBook();**

**addBookToFront({ title: "The Catcher in the Rye", author: "J.D. Salinger", yearPublished:**

**1951 });**

**removeFirstBook();**

**console.log(getAllTitles());**

**console.log(getBooksByAuthor("Harper Lee"));**

**console.log(getTotalBooksPublishedBefore(1900));**

**removeBookByTitle("My fault");**

**console.log(getBooksByReadStatus("read"));**

**console.log(getBooksByReadStatus("unread"));**

**console.log(getSubLibrary(1, 2));**

**output:**

