## **MINI PROJECT-2**

## "Personal Library"

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
   <script>
        function Book(title, author, yearPublished, readStatus) {
          this.title = title;
          this.author = author;
          this.yearPublished = yearPublished;
          this.readStatus = readStatus;
          this.getSummary = function() {
            return this.title + " by " + this.author + ", published in " +
this.yearPublished + ", read status: " + this.readStatus;
          this.toggleReadStatus = function() {
            this.readStatus = !this.readStatus;
          };
        var 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(function(book) {
            return book.title;
          });
        function getBooksByAuthor(author) {
          return library.filter(function(book) {
            return book.author === author;
          });
        function getTotalBooksPublishedBefore(year) {
          return library.filter(function(book) {
            return book.yearPublished < year;</pre>
          }).reduce(function(count, book) {
            return count + 1;
          }, 0);
        function removeBookByTitle(title) {
          var index = library.findIndex(function(book) {
            return book.title === title;
          });
         if (index !== -1) {
            library.splice(index, 1);
        function getBooksByReadStatus(status) {
          return library.filter(function(book) {
            return book.readStatus === status;
          });
        function getSubLibrary(start, end) {
          return library.slice(start, end);
        var book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald",
1925, false);
       var book2 = new Book("To Kill a Mockingbird", "Harper Lee", 1960,
true);
       var book3 = new Book("1984", "George Orwell", 1949, true);
        addBook (book1) ;
        addBook (book2) ;
        addBook (book3) ;
```