

WEEK-2 MINI PROJECT

Personal Library Using Javascript

Code:

```
<!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>
let library=Array();
function addbook(book){
  library.push(book);
}
function removelastbook(){
  library.pop();
}
function addbooktofront(book){
  library.unshift(book);
}
function removefirstbook(){
  library.shift();
}
function getalltitle(){
  let alltitle=library.map(n=>n.title);
  console.log(alltitle);
}
function getbookbyauthor(author){
  let specificaauthor=library.filter(n=>n.author==author);
  console.log(specificaauthor);
}
function readstatus(status){
  let readstate=library.filter(n=>n.status==status);
  console.log(readstate);
}
function getsublibrary(start,end){
  let sub=library.slice(start,end);
  console.log(sub);
}
let b1={
```

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```
title:"As I Lay Dying ",
author:"William Faulkner",
yearpub :1930,
status:"read"
}
let b2={
title:"Percy Jackson & the olympians",
author:"Rick Riordan",
yearpub :2005,
status:"unread"
}
let b3={
title:"The Alchemist",
author:"Paulo Coelho",
yearpub :1988,
status:"read"
}
let b4={
title:"The Girl with the Dragon Tattoo",
author:"Stieg Larsson",
yearpub :2005,
status:"read"
}
function getsummary(book){
console.log(book.title+" presented by "+book.author+" in the year
"+book.yearpub);
}
function togglerestatus(book){
console.log(book.status);
}
addbook(b2);
addbooktofront(b1);
addbook(b3);
addbook(b4);
console.log("Summary of all books");
console.log(`${getsummary(b1)} \n ${getsummary(b2)} \n
${getsummary(b3)}\n ${getsummary(b4)}`);
</script>
</body>
</html>
```

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Output:

```
PROBLEMS  CONSOLE  DEBUG CONSOLE  TERMINAL
Summary of all books
As I Lay Dying  presented by William Faulkner in the year 1930
Percy Jackson & the Olympians presented by Rick Riordan in the year 2005
The Alchemist presented by Paulo Coelho in the year 1988
The Girl with the Dragon Tattoo presented by Stieg Larsson in the year 2005
```

```
console.log("The books presented in library");
getalltitle();
```

```
The books presented in library
(4) ['As I Lay Dying ', 'Percy Jackson & the Olympians', 'The Alchemist', 'The Girl with the Dragon Tattoo']
```

```
console.log("The book written by William Faulkner");
getbookbyauthor('William Faulkner');
```

```
The book written by William Faulkner
✓ (1) [{...}]
> 0: {title: 'As I Lay Dying ', author: 'William Faulkner', yearpub: 1930, status: 'read'}
  length: 1
> [[Prototype]]: Array(0)
> [[Prototype]]: Object
```

```
console.log("book those are already read");
readstatus("read");
```

```
book those are already read
(3) [{...}, {...}, {...}]
> 0: {title: 'As I Lay Dying ', author: 'William Faulkner', yearpub: 1930, status: 'read'}
> 1: {title: 'The Alchemist', author: 'Paulo Coelho', yearpub: 1988, status: 'read'}
> 2: {title: 'The Girl with the Dragon Tattoo', author: 'Stieg Larsson', yearpub: 2005, status: 'read'}
  length: 3
> [[Prototype]]: Array(0)
> [[Prototype]]: Object
```

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```
console.log("sub library");  
    getsublibrary(1,3);
```

```
book those are already read  
(3) [{...}, {...}, {...}]  
> 0: {title: 'As I Lay Dying ', author: 'William Faulkner', yearpub: 1930, status: 'read'}  
> 1: {title: 'The Alchemist', author: 'Paulo coelho', yearpub: 1988, status: 'read'}  
> 2: {title: 'The Girl with the Dragon Tattoo', author: 'Stieg Larsson', yearpub: 2005, status: 'read'}  
    length: 3  
> [[Prototype]]: Array(0)  
> [[Prototype]]: Object
```