

WEEK-02

MINI PROJECT: PERSONAL LIBRARY

```
//Miniproject:
let Book={
  Title:prompt("Enter the new book"),
  Author:prompt("Enter the author name"),
  Year:prompt("Enter the year"),
  reads:confirm("Do you want read the book"),
summary :function(){
  return (this.Title + " book is written by " + this.Author);
},
togglereadstatus:function()
{
  return this.reads;
}
};

let books=[];
books.push(Book);
books.push(prompt("Enter the Second Book"));
console.log(Book);

function addBooks(Book1)
{
  books.push(Book1);
  console.log(books);
}
addBooks(prompt("enter the new Book->"));

function removelastbook()
{
  books.pop();
}
removelastbook();
console.log(books);

function addbooktofront(Book)
{
  books.unshift(Book);
}
addbooktofront(prompt("Enter the another Book->"));
console.log(books);

function removefirstbook()
{
  books.shift();
}
```

```

}
removefirstbook();
console.log(books);
console.log(Book.summary());

function getAllTitles()
{
    let Title=title=>title.Title;
    const Titles=books.map(Title);
    console.log(Titles);
}
getAllTitles();

function getBooksByAuthor()
{
    let Author=author=>author.Author;
    const Authors=books.map(Author);
    console.log(Authors);
}
getBooksByAuthor();

function getTotalBooksPublishedBefore(year)
{
    let
y=books.map(year=>year.Year<year).reduce((prev,cuurentvalue)=>(prev+1,0));
    console.log(y);
}
getTotalBooksPublishedBefore("2024");

function removeBookByTitle(Title){
    let index=books.findIndex(
    function removing(){
        if(books.tit==Title){
            return true;
        }
    })
    books.splice(index,0);
    console.log(books);
}
removeBookByTitle("Luna");

function getBooksByReadStatus(togglereadstatus)
{
    let stsfil=books.map(sts=>sts.reads==togglereadstatus);
    console.log(stsfil);
}
getBooksByReadStatus('NO');

```

```
function getSubLibrary(start,end)
{
    let sublib=books.slice(start,end);
    console.log(sublib);
}
getSubLibrary(1,2);
```

OUTPUT:

```

project.js:19 {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
  ▼ (1) [{...}]
    0: {Title: "Chandrayan-1", Author: "ISRO", Year: "2023", reads: true, summary: f, ...}
    length: 1
    [[Prototype]]: Object
project.js:24 (3) [{...}, 'Chandrayan-2', 'Chandrayan-3']
  ▼ (3) [{...}, 'Chandrayan-2', 'Chandrayan-3']
    0: {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
    1: "Chandrayan-2"
    length: 2
    [[Prototype]]: Array(0)
project.js:34 (2) [{...}, 'Chandrayan-2']
  ▼ (2) [{...}, 'Chandrayan-2']
    0: {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
    1: "Chandrayan-2"
    length: 2
    [[Prototype]]: Array(0)
project.js:41 (3) ['Mangalyan', {...}, 'Chandrayan-2']
  ▼ (3) ['Mangalyan', {...}, 'Chandrayan-2']
    0: {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
    1: "Chandrayan-2"
    length: 2
    [[Prototype]]: Array(0)
project.js:48 (2) [{...}, 'Chandrayan-2']
  ▼ (2) [{...}, 'Chandrayan-2']
    0: {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
    1: "Chandrayan-2"
    length: 2
    [[Prototype]]: Array(0)
project.js:49 Chandrayan-1 book is written by ISRO
project.js:55 (2) ['Chandrayan-1', undefined]
  ▼ (2) ['Chandrayan-1', undefined]
    0: "Chandrayan-1"
    1: undefined
    length: 2
    [[Prototype]]: Array(0)
project.js:63 (2) ['ISRO', undefined]
  ▼ (2) ['ISRO', undefined]
    0: "ISRO"
    1: undefined
    length: 2
    [[Prototype]]: Array(0)
project.js:70 0
project.js:82 (2) [{...}, 'Chandrayan-2']
  ▼ (2) [{...}, 'Chandrayan-2']
    0: {Title: 'Chandrayan-1', Author: 'ISRO', Year: '2023', reads: true, summary: f, ...}
    1: "Chandrayan-2"
    length: 2
    [[Prototype]]: Array(0)
project.js:89 (2) [false, false]
  ▼ (2) [false, false]
    0: false
    1: false
    length: 2
    [[Prototype]]: Array(0)
project.js:97 ['Chandrayan-2']
  ▼ ['Chandrayan-2']
    0: "Chandrayan-2"
    length: 1
    [[Prototype]]: Array(0)

```