

```
const prompt = require('prompt-sync')({ sigint: true });
```

```
let arr = [];
```

```
let userChoice = '';
```

```
while (userChoice !== '5') {
```

```
    console.log('1. create (add an item)');
```

```
    console.log('2. read (view all items)');
```

```
    console.log('3. update (modify an item)');
```

```
    console.log('4. delete (remove an item)');
```

```
    console.log('5. exit');
```

```
    userChoice = prompt('enter your choice: ');
```

```
switch (userChoice) {
```

```
    case '1':
```

```
        const b= prompt('enter the item to add: ');
```

```
        arr.push(b);
```

```
        console.log(`${b}`, ' has been added');
```

```
        break;
```

```
    case '2':
```

```
        if (arr.length === 0) {
```

```
            console.log('the array is empty.');
```

```
        } else {
```

```
            console.log(`\ncurrent array items`);
```

```
            arr.forEach((item, index) => {
```

```
        console.log(`${index}: ${item}`);  
    });  
}  
break;
```

case '3':

```
if (arr.length > 0) {  
    const a = prompt('enter the index of the item to update: ');  
    const newUpdateValue = prompt('enter the new value: ');  
    if (a >= 0 && a < arr.length) {  
        arr[a] = newUpdateValue;  
        console.log('item updated successfully.');    } else {  
        console.log('invalid index.');    }  
} else {  
    console.log('the array is empty');}  
break;
```

case '4':

```
if (arr.length > 0) {  
    const deleteIndex = prompt('enter the index of the item to delete: ');  
    if (deleteIndex >= 0 && deleteIndex < arr.length) {  
        arr.splice(deleteIndex, 1);  
        console.log('item deleted successfully.');    } else {  
        console.log('invalid index.');    }  
}
```

```
    } else {  
        console.log('the array is empty');  
    }  
    break;  
  
    case '5':  
  
        console.log('exiting program.');        break;  
  
    default:  
        console.log('invalid choice');    }  
}
```

● PS C:\Users\hx117\OneDrive\Desktop\app dev> node exp1.js

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

enter your choice: 1

enter the item to add: 2

2 has been added

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

enter your choice: 1

enter the item to add: 6

6 has been added

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

enter your choice: 1

enter the item to add: 0

0 has been added

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

enter your choice: 2

```
current array items
0: 2
1: 6
2: 0
1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit
enter your choice: 3
enter the index of the item to update: 0
enter the new value: 4
item updated successfully.
1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit
enter your choice: 2
```

```
current array items
0: 4
1: 6
2: 0
1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit
enter your choice: 4
enter the index of the item to delete: 3
invalid index.
1. create (add an item)
```

```
enter your choice: 4
enter the index of the item to delete: 3
invalid index.
```

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

```
enter your choice: 2
```

```
current array items
```

```
0: 4
```

```
1: 6
```

```
2: 0
```

1. create (add an item)
2. read (view all items)
3. update (modify an item)
4. delete (remove an item)
5. exit

```
enter your choice: 5
```

```
exiting program.
```

```
PS C:\Users\hx117\OneDrive\Desktop\app dev> █
```