1.Extracts a section of an array without modifying the original.

```
let nums = [10, 20, 30, 40, 50];
let sliced = nums.slice(1, 3);
console.log(sliced);
```

2. Accessing the first and last items using indices.

```
let colors = ["red", "green", "blue", "yellow", "purple"];
console.log(colors[0]);
console.log(colors[colors.length - 1]);
```

3.Updating Elements

```
let fruits = ["apple", "banana", "grape"];
fruits[1] = "mango";
console.log(fruits);
```

4.Adding and removing elements from the end of an array.

```
let items = ["pen", "pencil"];
items.push("orange");
console.log(items);
items.pop();
console.log(items);
```

5.Adding and removing elements from the beginning of an array.

```
let tools = ["eraser", "ruler"];
tools.unshift("marker");
tools.shift();
console.log(tools);
```

6.Removing and replacing elements at a specific index.

```
let fruits = ["apple", "banana", "cherry"];
fruits.splice(1, 1, "dragonfruit");
console.log(fruits);
```

7.forEach Loop

```
let names = ["Vilas", "Asha", "Meena"];
names.forEach(name => console.log("Hello " + name));
```

8.Standard For Loop

```
let cities = ["Delhi", "Mumbai", "Pune"];
for (let i = 0; i < cities.length; i++) {
  console.log(cities[i]);
}
```

9.Creates a new array by performing a function on every element.

```
let nums = [2, 4, 6];
let squares = nums.map(n => n * n);
console.log(squares);
```

10.Counting Even Numbers

```
let numbers = [1, 2, 3, 4, 6, 8];
let count = 0;
numbers.forEach(n => {
  if (n % 2 === 0) count++;
});
console.log(count);
```

11.Filters odd numbers first, then doubles them.

```
let nums = [1, 2, 3, 4, 5];
let result = nums.filter(n => n % 2 !== 0).map(n => n * 2);
console.log(result);
```