

- * Map: iterate over array and perform action on all values
- Filter: iterate over array and filter out the element
- Reduce: Single value

Promise

eg:

```
const makePromise = new Promise((resolve, reject) => {
  setTimeout(() => {
    const arrone = ["HTML", "CSS", "JS", "Tailwind"];
    if (arrone.length > 0) {
      resolve("Completed");
    } else {
      reject("Incomplete");
    }
  }, 3000);
});
```

) working like return

make Promise

```
, then ((result)) => {
  console.log(result);
})
```

- catch ((result)) => { or makePromise.catch
 console.log(result);
})

Output: completed

Weather API

```
const url = "https://restcountries.com/v2/all"; //countries
fetch(url)
  .then((response) => response.json())
  .then((data) => console.log(data))
  .catch((error) => console.log(error));
will receive the data in JSON format
used to catch errors.
```

API Key: With this Weather API will know who am I

```
* let data;
const inputBox = document.getElementById("inputBox");
const countryName = document.getElementById("countryName");
const stateName = document.getElementById("State Name");
const cityName = document.getElementById("City Name");
const humidity = document.getElementById("humidity");
const WindSpeed = document.getElementById("Wind Speed");
const Temperature = document.getElementById("Temperature");
const logoImage = document.getElementById("logoImage");
const Weatherstatus = document.getElementById("Weather status");
const getData = async (event) => {
  event.preventDefault();
  if (!inputBox.value){after input the input will not
    alert("Enter City");disappear
    return;but will loose functionality
  }
}
```

```
const city = inputBox.value
```

// Fetch Details

```
const fetchData = await fetch(`https://api.weatherapi.com/v1/current.json?key=...&q=${city}`)
```

```
const orgData = await fetchData.json();
data = orgData;
console.log(data);
```

// Displaying Data in HTML

```
countryName.innerHTML = data.location.country;
```

```
stateName.innerHTML = data.location.state,
```

```
cityName.innerHTML = data.location.city;
```

```
humidity.innerHTML = data.location.humidity;
```

```
windSpeed.innerHTML = data.location.wind;
```

```
temperature.innerHTML = data.location.Temperature;
```

```
weatherStatus.innerHTML = data.current.condition.text;
```

```
logImage.src = data.current.condition.icon;
```

};

Homework: Create Weather Web-App and upload to github.