Day-7

```javascript
1   // events in JS
2
3
4   //it invokes the function when specified event happens
5
6   //types
7   //click, submit, keypress, scroll
8
9   document.getElementById("btn").addEventListener("click", function () {
10    console.log("Button clicked");
11  });
12
13  // callback
14
15
16  // A callback is a function passed into another function to run after time.
17
18  function fetchData(callback) {
19    setTimeout(() => {
20      callback("data loaded");
21    }, 1000);
22  }
23  fetchData((msg) => console.log(msg));
24
25  // promises
26
27
28  // A Promise gives a future sucees or failure.It avoids callback hell and makes async easy
29
30  const promise = new Promise((resolve) => {
31    setTimeout(() => resolve("promise resolved"), 1000);
32  });
33  promise.then((msg) => console.log(msg));
34
35  // async & await
36
37
38  // async makes a function return a promise. await pauses the function until the promise resolves. It gives synchronous-like readability for async code.
39
40  async function load() {
41    const msg = await new Promise((res) =>
42      setTimeout(() => res("finished"), 1000)
43    );
44    console.log(msg);
45  }
46  load();
47
```