

ASSIGNMENT-5

6. What is Async and Await keywords in JavaScript?

- async makes a function return a Promise
- await makes a function wait for a Promise

Async Syntax

The keyword `async` before a function makes the function return a promise:

Example:

```
async function myFunction() {  
  return "Hello";  
}
```

Here is how to use the Promise:

```
myFunction().then(  
  function(value) { /* code if successful */ },  
  function(error) { /* code if some error */ }  
);
```

Example:

```
async function myFunction() {  
  return "Hello";  
}  
myFunction().then(  
  function(value) {myDisplayer(value);},  
  function(error) {myDisplayer(error);}  
);
```

Await Syntax

The `await` keyword can only be used inside an `async` function.

The `await` keyword makes the function pause the execution and wait for a resolved promise before it continues:

```
let value = await promise;
```

Basic Syntax

```
async function myDisplay() {  
  let myPromise = new Promise(function(resolve, reject) {
```

```

        resolve("Hey Isha here !!");
    });
    document.getElementById("demo").innerHTML = await myPromise;
}

myDisplay();

```

Example without reject

```

async function myDisplay() {
    let myPromise = new Promise(function(resolve) {
        resolve("I love You !!");
    });
    document.getElementById("demo").innerHTML = await myPromise;
}

myDisplay();

```

Waiting for a Timeout

```

async function myDisplay() {
    let myPromise = new Promise(function(resolve) {
        setTimeout(function() {resolve("I love You !!");}, 3000);
    });
    document.getElementById("demo").innerHTML = await myPromise;
}

myDisplay();

```

Waiting for a File

```

async function getFile() {
    let myPromise = new Promise(function(resolve) {
        let req = new XMLHttpRequest();
        req.open('GET', "mycar.html");
        req.onload = function() {
            if (req.status == 200) {
                resolve(req.response);
            } else {
                resolve("File not Found");
            }
        };
        req.send();
    });
    document.getElementById("demo").innerHTML = await myPromise;
}

getFile();

```