JavaScript Day-8 Assignments

1. Create a module file called 'utils.js' that exports a function named 'greetUser' which takes a name parameter and returns "Hello, [name]!". Then import and use this function in another file.

2. Write a Promise that resolves after 2 seconds with the message "Task completed!". Use .then() to log the result to the console.

3. Create an async function called 'waitAndGreet' that uses setTimeout with a Promise to wait 1 second, then returns "Welcome!".

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1 function waitAndGreet() {
                                                             Elements Console >>
      setTimeout(() => {
                                                             resolve(`Welcome`);
                                                             Default levels ▼ No Issues 1 hidden
       }, 2000);
                                                               Welcome
                                                                                      main.js:11
9 waitAndGreet()
.then((message) => {
     console.log(message);
   .catch((error) => {
     console.error(`Error: ${error}`);
16
```

4. Write an async function that fetches user data from 'https://jsonplaceholder.typicode.com/users/1' and logs the user's name and email to the console.

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1 async function fetchData() {
                                                                                         | ⊗3 : ×
                                                               Elements Console >>
      let response = await fetch("https://jsonplaceholde
                                                               let userData = await response.json();
                                                               Default levels ▼ No Issues 1 hidden 🕃
                                                                 Leanne Graham
                                                                                        main.js:7
                                                                 Sincere@april.biz
                                                                                         main.js:8
      console.log(userData.name);
     console.log(userData.email);
      console.error(`Error: ${err}`);
   fetchData();
```

5. Create a function that fetches the first 3 posts from 'https://jsonplaceholder.typicode.com/posts' and returns only their titles as an array.

```
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1 async function fetchPostTitles() {
                                                                              Elements Console >> | 🕸 🗓 X
         let response = await fetch("https://jsonplaceholder
                                                                              let posts = await response.json();
                                                                              Default levels ▼ No Issues 1 hidden 😂
         let titles = posts.slice(0, 3).map((article) => {
                                                                                   main.js:16
(3) ['sunt aut facere repellat provid
         return article.title;
                                                                                 ent occaecati excepturi optio reprehe
) nderit', 'qui est esse', 'ea molestia
s quasi exercitationem repellat qui i
                                                                                   psa sit aut']
        console.error(`Error: ${err}`);
14
15 let titles = await fetchPostTitles();
16 console.log(titles);
```

6. Create a simple timer function using Promise that counts from 1 to 3, logging each number after 1 second intervals.

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7. Write a function that safely parses JSON data with try/catch. Test it with both valid JSON string '{"name": "Omar"}' and invalid JSON '{name: Omar}'.

8. Create an async function that fetches data from 'https://jsonplaceholder.typicode.com/users/1/todos', converts it to JSON, and returns the count of completed todos.

```
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    Google ✓ YouTube ✓ Gmail 🖸 Keep 🝐 Drive 🔄 Go
1 async function fetchToDo() {
                                                                 Elements Console >>
       let response = await fetch(
                                                                 "https://jsonplaceholder.typicode.com/users/1/toc
                                                                 Default levels ▼ No Issues 1 hidden 😂
       let data = await response.json();
                                                                   Completed Tasks: 11
       let completed = 0;
       data.map((task) => {
       if (task.completed) {
         completed++;
       console.log(`Completed Tasks: ${completed}`);
       console.log(`Error: ${err}`);
   fetchToDo();
```

9. Build a simple module that exports a default class called 'DataFetcher' with a method 'getUser(id)' that fetches and returns user data from the JSONPlaceholder API.

