

```
// Assignment 1: sumAsync
```

```
function sumAsync(num1, num2, callback) {  
  setTimeout(() => {  
    const sum = num1 + num2;  
    callback(sum);  
  }, 1000);  
}
```

```
// Usage
```

```
sumAsync(5, 10, (result) => {  
  console.log("Sum:", result); // Output after 1 second: Sum: 15  
});
```

```
// Assignment 2: getData
```

```
function getData() {  
  return new Promise((resolve) => {  
    setTimeout(() => {  
      resolve("Data fetched successfully.");  
    }, 2000);  
  });  
}
```

```
// Usage
```

```
getData().then((message) => {  
  console.log(message); // Output after 2 seconds: Data fetched successfully.  
});
```

```
});
```

```
// Assignment 3: fetchData
```

```
async function fetchData(url) {  
  const response = await fetch(url);  
  const data = await response.json();  
  return data;  
}
```

```
// Usage (replace 'YOUR_API_URL' with an actual URL)
```

```
// fetchData('YOUR_API_URL').then(data => console.log(data));
```

```
// Assignment 4: fetchData (similar to Assignment 3)
```

```
async function fetchData(url) {  
  const response = await fetch(url);  
  const data = await response.json();  
  return data;  
}
```

```
// Usage (replace 'YOUR_API_URL' with an actual URL)
```

```
// fetchData('YOUR_API_URL').then(data => console.log(data));
```

```
// Assignment 5: multiplyWithCallback
```

```
function multiplyWithCallback(arr, callback) {  
  const result = arr.map(num => num * 2);
```

```
    callback(result);  
  }  
}
```

```
// Usage
```

```
multiplyWithCallback([1, 2, 3, 4], (result) => {  
  console.log("Multiplied Array:", result); // Output: Multiplied Array: [2, 4, 6, 8]  
});
```

```
// Assignment 6: fetchUserDataAndPosts
```

```
async function fetchUserDataAndPosts(userId) {  
  const userResponse = await fetch(`https://jsonplaceholder.typicode.com/users/${userId}`);  
  const userData = await userResponse.json();  
  
  const postsResponse = await fetch(`https://jsonplaceholder.typicode.com/posts?userId=${userId}`);  
  const postsData = await postsResponse.json();  
  
  return {  
    user: userData,  
    posts: postsData,  
  };  
}
```

```
// Usage (replace 'USER_ID' with an actual user ID)
```

```
// fetchUserDataAndPosts(USER_ID).then(data => console.log(data));
```

```
// Assignment 7: fetchMultipleData
```

```
async function fetchMultipleData(urls) {  
    const responses = await Promise.all(urls.map(url => fetch(url).then(res => res.json())));  
    return responses;  
}
```

```
// Usage (replace with actual URLs)
```

```
// fetchMultipleData(['url1', 'url2']).then(data => console.log(data));
```

```
// Assignment 8: racePromises
```

```
function racePromises(promises) {  
    return Promise.race(promises);  
}
```

```
// Usage
```

```
const promise1 = new Promise((resolve) => setTimeout(() => resolve("First Promise"), 1000));  
const promise2 = new Promise((resolve) => setTimeout(() => resolve("Second Promise"), 500));
```

```
racePromises([promise1, promise2]).then(result => {  
    console.log("Race Result:", result); // Output: Race Result: Second Promise  
});
```