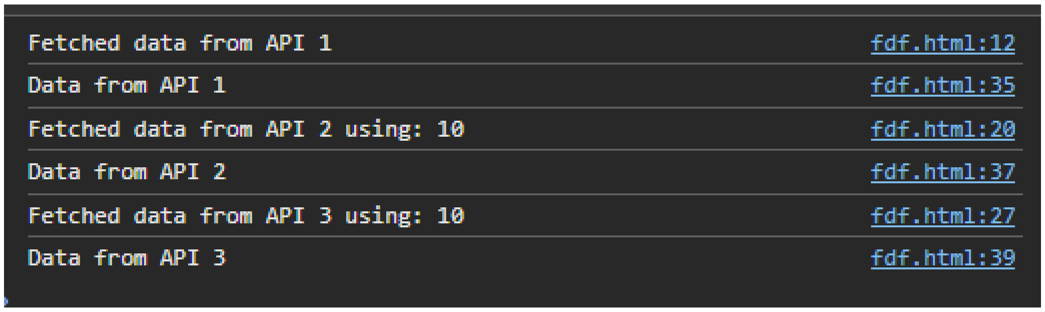
TASK 21:

```
!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1"> <title>Document</title>
</head>
<body>
<script>
function fetchDataFromAPI1() {
return new Promise((resolve) => {
setTimeout(() => {
console.log("Fetched data from API 1");
resolve("Data from API 1");
}, 1000);
});
}
function fetchDataFromAPI2(data) {
return new Promise((resolve) => {
setTimeout(() => {
console.log(`Fetched data from API 2 using: ${data}`); resolve("Data from API 2");
}, 1000);
});
}
function fetchDataFromAPI3(data) {
return new Promise((resolve) => {
setTimeout(() => {
console.log(`Fetched data from API 3 using: ${data}`); resolve("Data from API 3");
}, 1000);
});
}
async function chainPromises() {
let data1 = 10;
try {
const a = await fetchDataFromAPI1();
console.log(a);
const b = await fetchDataFromAPI2(data1);
console.log(b);
const c = await fetchDataFromAPI3(data1);
console.log(c);
document.writeln("All data fetched successfully.");
} catch (error) {
console.error("Error:", error);
document.writeln("An error occurred during data fetching."); }
}
chainPromises();
</script>
</body>
</html>
```

OUTPUT:

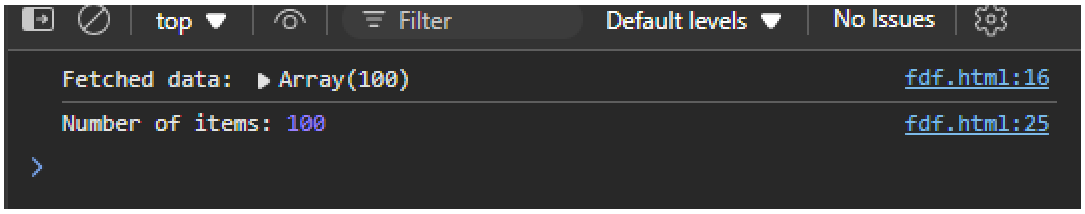


```
Fetched data from API 1                              fdf.html:12
Data from API 1                                      fdf.html:35
Fetched data from API 2 using: 10                    fdf.html:20
Data from API 2                                      fdf.html:37
Fetched data from API 3 using: 10                    fdf.html:27
Data from API 3                                      fdf.html:39
```

TASK 22:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>My Webpage</title>
</head>
<body>
<script>
async function fetchDataAndProcess(url) {
try {
const response = await fetch(url);
if (!response.ok) {
throw new Error("Network response was not ok");
}
const data = await response.json();
console.log("Fetched data:", data);
return data.length;
} catch (error) {
console.error("Error fetching data:", error);
}
}
const apiUrl = 'https://jsonplaceholder.typicode.com/posts';
fetchDataAndProcess(apiUrl).then((result) => {
if (result !== undefined) {
console.log('Number of items:', result);
}
});
</script>
</body>
</html>
```

OUTPUT:



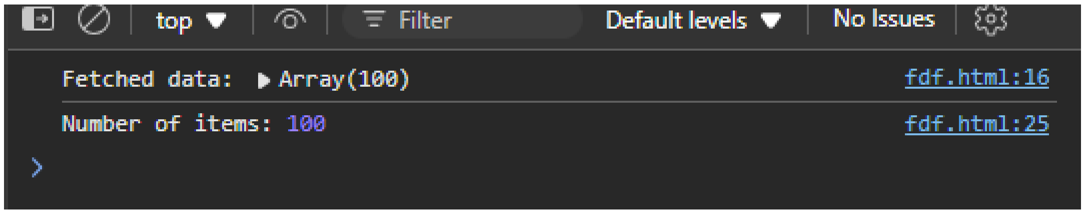
```
Fetched data:  ▶Array(100)                           fdf.html:16
Number of items: 100                                 fdf.html:25
```

TASK 23:

```
<html lang="en">
<head>
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>My Webpage</title>
</head>
<body>
<script>
async function fetchDataAndProcess(url) {
try {
const response = await fetch(url);
if (!response.ok) {
throw new Error("Network response was not ok");
}
const data = await response.json();
console.log("Fetched data:", data);
return Array.isArray(data) ? data.length : 0;
} catch (error) {
console.error("Error fetching data:", error);
return 0;
}
}
const apiUrl = 'https://jsonplaceholder.typicode.com/posts'; fetchDataAndProcess(apiUrl).then((result) =>
{
if (result > 0) {
console.log('Number of items:', result);
} else {
console.log('No items fetched or an error occurred.');
}
});
</script>
</body>
</html>
```

OUTPUT:

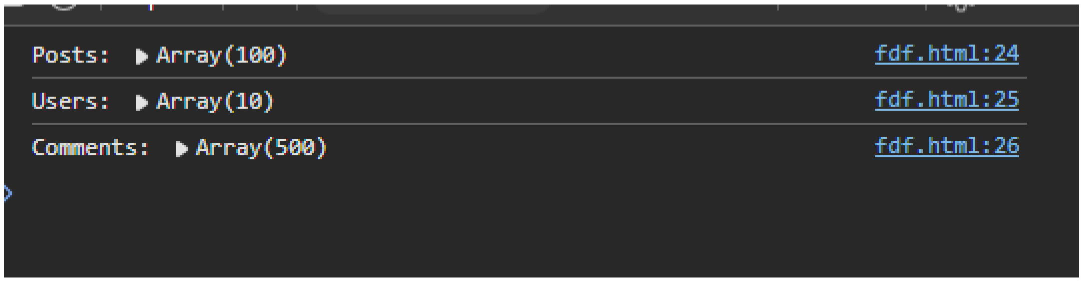


```
Fetched data:  ▶ Array(100)          fdf.html:16
Number of items: 100                 fdf.html:25
```

TASK 24:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>My Webpage</title>
</head>
<body>
<script>
async function fetchMultipleResources() {
const urls = [
'https://jsonplaceholder.typicode.com/posts',
'https://jsonplaceholder.typicode.com/users',
'https://jsonplaceholder.typicode.com/comments'
];
try {
const fetchPromises = urls.map(async (url) => {
const response = await fetch(url);
if (!response.ok) {
throw new Error(`Failed to fetch from ${url}`);
}
return response.json();
});
const results = await Promise.all(fetchPromises);
console.log('Posts:', results[0]);
console.log('Users:', results[1]);
console.log('Comments:', results[2]);
} catch (error) {
console.error('Error fetching data:', error);
}
}
fetchMultipleResources();
</script>
</body>
</html>
```

OUTPUT:

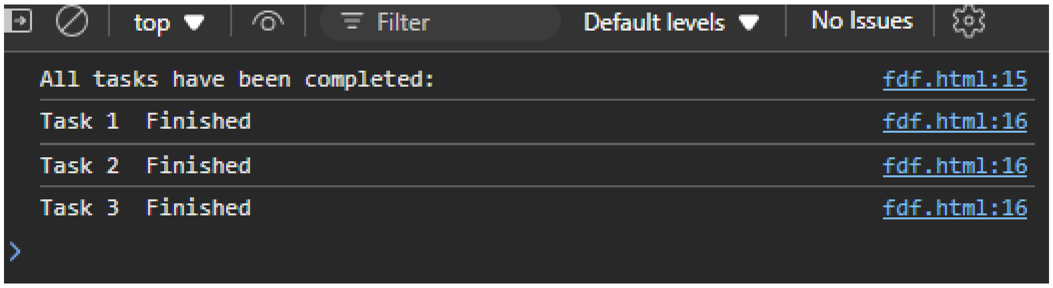


```
Posts:  ▶ Array(100)                                fdf.html:24
Users:  ▶ Array(10)                                 fdf.html:25
Comments:  ▶ Array(500)                             fdf.html:26
```

TASK 25:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>My Webpage</title>
</head>
<body>
<script>
async function executeMultipleTasks() {
try {
const task1 = new Promise((resolve) => setTimeout(() => resolve('Task 1   Finished'), 2000));
const task2 = new Promise((resolve) => setTimeout(() => resolve('Task 2   Finished'), 3000));
const task3 = new Promise((resolve) => setTimeout(() => resolve('Task 3   Finished'), 1000));
const outcomes = await Promise.all([task1, task2, task3]);
console.log('All tasks have been completed:');
outcomes.forEach(outcome => console.log(outcome));
} catch (err) {
console.error('An error occurred:', err);
}
}
executeMultipleTasks();
</script>
</body>
</html>
```

OUTPUT:



```
All tasks have been completed:        fdf.html:15
Task 1  Finished                      fdf.html:16
Task 2  Finished                      fdf.html:16
Task 3  Finished                      fdf.html:16
```