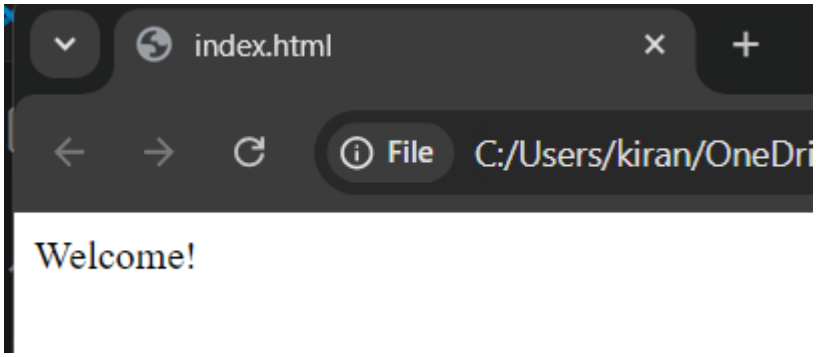
717823E229

TASK – 4.1

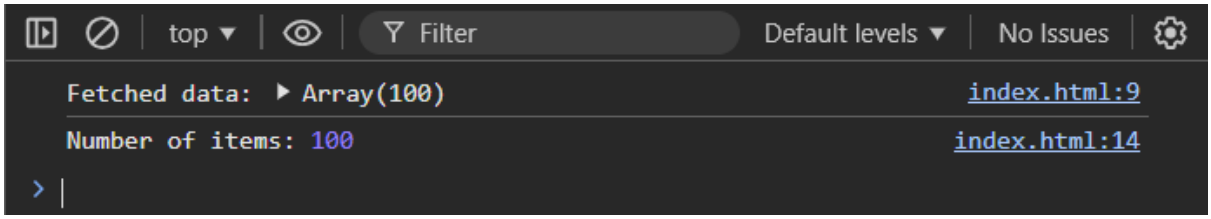
```
<!DOCTYPE html>
<html>
<body>
  <script>
function greetAfterSeconds() {
return new Promise((resolve) => {
setTimeout(() => {
resolve("Welcome!");
}, 2000);
});
}
greetAfterSeconds().then((greeting) => {
document.writeln(greeting);
});
  </script>
</body>
</html>
```



TASK – 4.2

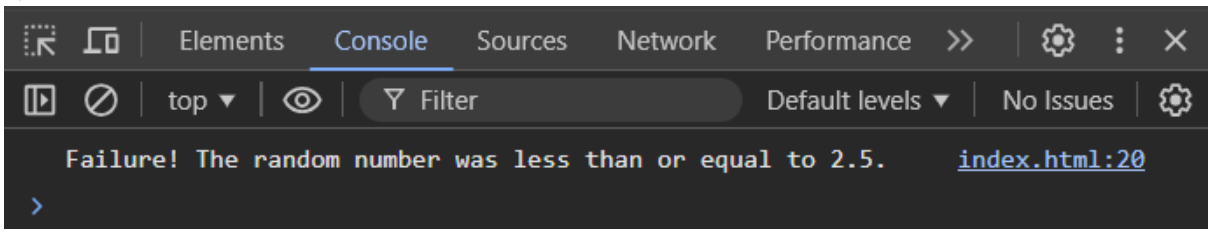
```
<!DOCTYPE html>
<html>
<body>
  <script>
function fetchData(url) {
return fetch(url)
.then(response => response.json())
.then(data => {
console.log('Fetched data:', data);
return data;
})
.then(data => {
const count = data.length;
console.log('Number of items:', count);
})
.catch(error => {
console.log('Error:', error);
});
}
```

```
const apiUrl = 'https://jsonplaceholder.typicode.com/posts';
fetchData(apiUrl);
  </script>
</body>
</html>
```



TASK – 4.3

```
<!DOCTYPE html>
<html>
<body>
  <script>
function randomPromise() {
return new Promise((resolve, reject) => {
const randomNumber = Math.random();
if (randomNumber > 2.5) {
resolve("Success! The random number was greater than 2.5.");
} else {
reject("Failure! The random number was less than or equal to 2.5.");
}
});
}
randomPromise()
.then((message) => {
console.log(message);
})
.catch((error) => {
console.log(error);
});
  </script>
</body>
</html>
```



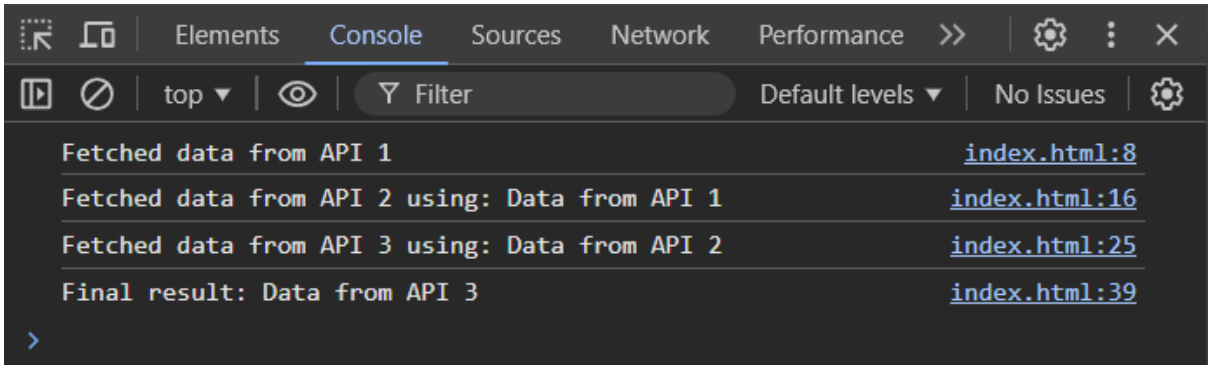
TASK – 4.4

```
<!DOCTYPE html>
<html>
<body>
  <script>
```

```
function fetchDataFromAPI1() {
return new Promise((resolve) => {
setTimeout(() => {
console.log("Fetched data from API 1");
resolve("Data from API 1");
}, 2000);
});
}
function fetchDataFromAPI2(data) {
return new Promise((resolve) => {
setTimeout(() => {
console.log(`Fetched data from API 2 using: ${data}`);
resolve("Data from API 2");
}, 2000);
});

}
function fetchDataFromAPI3(data) {
return new Promise((resolve) => {
setTimeout(() => {
console.log(`Fetched data from API 3 using: ${data}`);
resolve("Data from API 3");
}, 2000);
});
}
function chainPromises() {
fetchDataFromAPI1()
.then((data1) => {
return fetchDataFromAPI2(data1);
})
.then((data2) => {
return fetchDataFromAPI3(data2);
})
.then((data3) => {
console.log(`Final result: ${data3}`);
})
.catch((error) => {
console.error("Error:", error);})

}
chainPromises();
  </script>
</body>
</html>
```



TASK - 4.5

```
<!DOCTYPE html>
<html>
<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);
});
}
function chainPromises() {
fetchDataFromAPI1()
.then((data1) => {
return fetchDataFromAPI2(data1);
})
.then((data2) => {
return fetchDataFromAPI3(data2);
```

```
})
.then((data3) => {
console.log(`Final result: ${data3}`);
})
.catch((error) => {
console.error("Error:", error);})

}
chainPromises();
  </script>
</body>
</html>
```