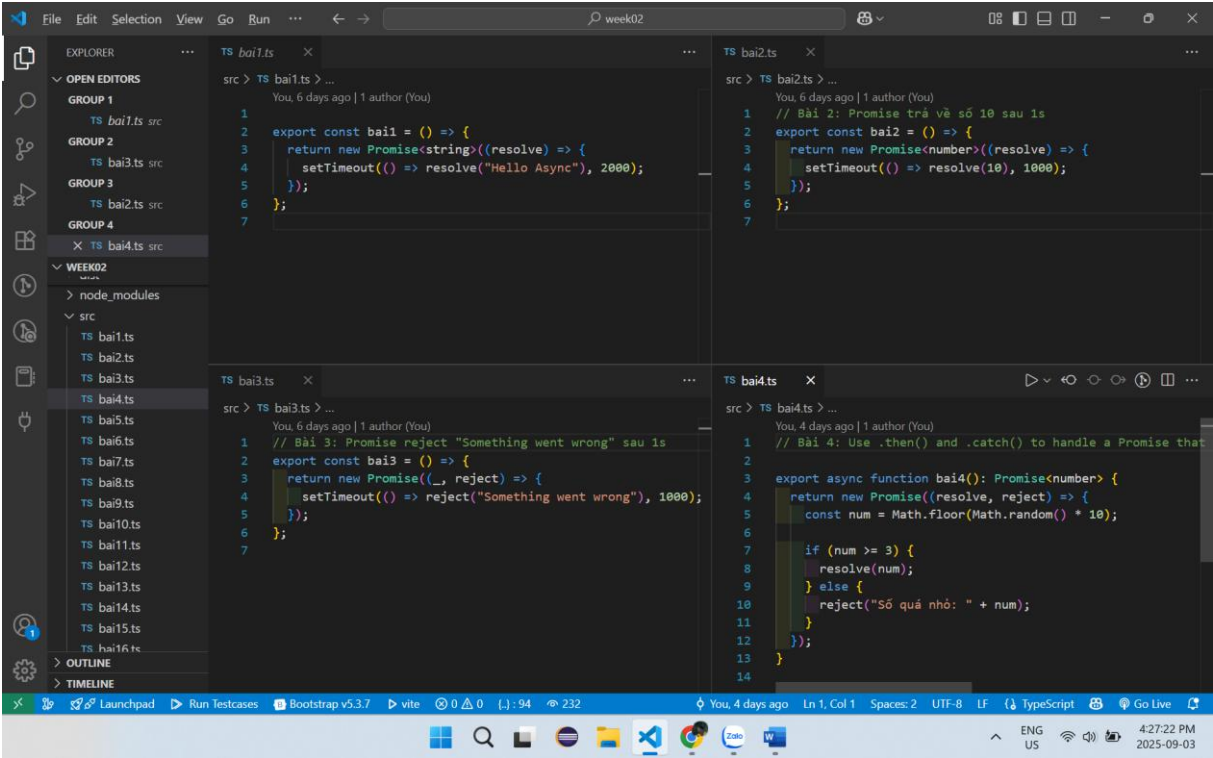
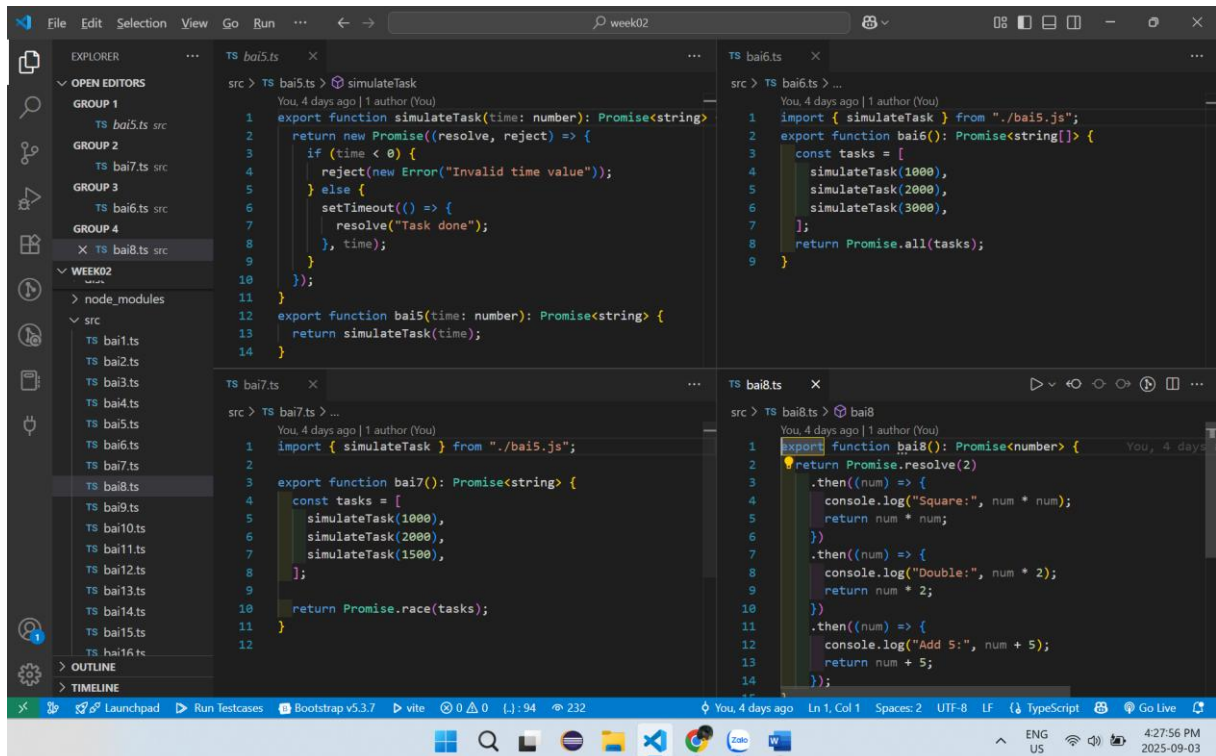


Minh Chứng Tuần 2

Bài 1,2,3,4



Bai5678



```
D:\React Native\ChiTuong_22714591\week02>node dist/index.js
```

Bài 1

Hello Async

Bài 2

10

Bài 3

Error: Something went wrong

Bài 4 - Số ngẫu nhiên: 4

Bài 5 - Success: Task done

Bài 6 - Success: ['Task done', 'Task done', 'Task done']

Bài 7 - Fastest result: Task done

Bài 8 - Success: 13

Bai9,10,11,12

```
src > TS bai9.ts > bai9
You, 4 days ago | 1 author (You)
1 export function bai9(numbers: number[]): Promise<number[]> {
2   return new Promise((resolve, reject) => {
3     if (!Array.isArray(numbers)) {
4       reject(new Error("Input must be an array"));
5     }
6     return;
7   });
8   setTimeout(() => {
9     const evens = numbers.filter((num) => num % 2 === 0);
10    resolve(evens);
11    }, 1000);
12  });
13 }

src > TS bai10.ts > bai10
You, 4 days ago | 1 author (You)
1 export function bai10(success: boolean): Promise<string> {
2   return new Promise((resolve, reject) => {
3     setTimeout(() => {
4       if (success) resolve("Promise resolved successfully!");
5       else reject(new Error("Promise rejected!"));
6     }, 1000);
7   });
8   .then((result): string => {
9     console.log("Result:", result);
10    return result;
11  });
12  .catch((err): string => {
13    console.error("Error:", (err instanceof Error) ? err.message : "Handled error"); // đảm bảo Promise<string>
14  });
15 }

src > TS bai11.ts > ...
You, 4 days ago | 1 author (You)
1 // Hàm trả về Promise
2 function sayHelloAsync(): Promise<string> {
3   return new Promise((resolve) => {
4     setTimeout(() => {
5       resolve("Hello Async");
6     }, 2000);
7   });
8 }
9
10 export function bai11() {
11   return sayHelloAsync().then((message) => {
12     console.log(message);
13     return message;
14   });
15 }

src > TS bai12.ts > ...
You, 4 days ago | 1 author (You)
1 import { simulateTask } from "../bai5.js";
2 export async function bai12() {
3   const result = await simulateTask(2000);
4   console.log(result);
5   return result;
6 }
7
```

Bài 9 - Even numbers: [2, 4, 6, 8]
Result: Promise resolved successfully!
Done
Bài 10 - Result: Promise resolved successfully!

Bai13,14,15,16

```
src > TS bai13.ts > ...
You, 3 days ago | 1 author (You)
1 import { simulateTask } from "../bai5.js";
2 export async function bai13() {
3   try {
4     const result = await simulateTask(2000); // đổi thành 500
5     console.log(result);
6     return result;
7   } catch (err) {
8     console.error("Error:", (err as Error).message);
9     return "Failed";
10  }
11 }

src > TS bai14.ts > bai14
You, 3 days ago | 1 author (You)
1 export async function bai14(num:number): Promise<number> {
2   return new Promise((resolve) => {
3     setTimeout(() => {
4       resolve(num*3);
5     }, 1000);
6   });
7 }

src > TS bai15.ts > ...
You, 1 hour ago | 1 author (You)
1 import { simulateTask } from "../bai5.js";
2 export async function bai15(): Promise<void> {
3   console.log(">>> Bài 15 - Sequential start");
4   const r1 = await simulateTask(1000);
5   console.log("Task 1:", r1);
6   const r2 = await simulateTask(1500);
7   console.log("Task 2:", r2);
8   const r3 = await simulateTask(500);
9   console.log("Task 3:", r3);
10  console.log(">>> Bài 15 - Sequential end");
11 }

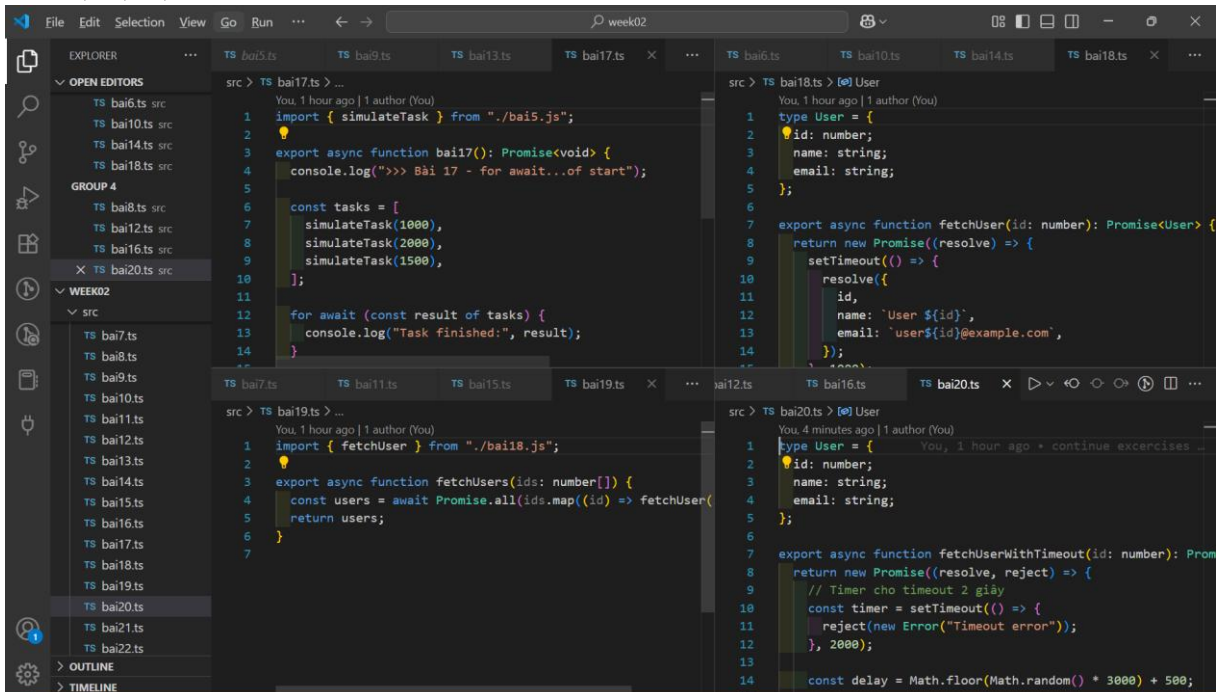
src > TS bai16.ts > ...
You, 1 hour ago | 1 author (You)
1 import { simulateTask } from "../bai5.js";
2
3 export async function bai16(): Promise<void> {
4   console.log(">>> Bài 16 - Parallel start");
5
6   const results = await Promise.all([
7     simulateTask(1000),
8     simulateTask(1500),
9     simulateTask(500),
10  ]);
11
12  console.log("Parallel results:", results);
13  console.log(">>> Bài 16 - Parallel end");
14 }
```

```
Bài 11 - Result: Hello Async
Task done
Bài 12 - Result: Task done
Task done
Bài 13 - Result: Task done
Task finished: Task done
Task finished: Task done
```

```
Bài 14 - Result: 15
Task 1: Task done
Task finished: Task done
```

```
> Bài 15 - Sequential start
> Bài 16 - Parallel start
> Bài 17 - for await...of start
```

Bai17,18,19,20



```
src > TS bai17.ts > ...
You, 1 hour ago | 1 author (You)
1 import { simulateTask } from "../bai5.js";
2
3 export async function bai17(): Promise<void> {
4   console.log(">>> Bài 17 - for await...of start");
5
6   const tasks = [
7     simulateTask(1000),
8     simulateTask(2000),
9     simulateTask(1500),
10  ];
11
12  for await (const result of tasks) {
13    console.log("Task finished:", result);
14  }
15 }
```

```
src > TS bai18.ts > [0] User
You, 1 hour ago | 1 author (You)
1 type User = {
2   id: number;
3   name: string;
4   email: string;
5 };
6
7 export async function fetchUser(id: number): Promise<User> {
8   return new Promise((resolve) => {
9     setTimeout(() => {
10       resolve({
11         id,
12         name: `User ${id}`,
13         email: `user${id}@example.com`,
14       });
15     }, 1000);
16   });
17 }
```

```
src > TS bai19.ts > ...
You, 1 hour ago | 1 author (You)
1 import { fetchUser } from "../bai18.js";
2
3 export async function fetchUsers(ids: number[]) {
4   const users = await Promise.all(ids.map((id) => fetchUser(id)));
5   return users;
6 }
7
```

```
src > TS bai20.ts > [0] User
You, 4 minutes ago | 1 author (You)
1 type User = {
2   id: number;
3   name: string;
4   email: string;
5 };
6
7 export async function fetchUserWithTimeout(id: number): Promise<User> {
8   return new Promise((resolve, reject) => {
9     // Timer cho timeout 2 giây
10    const timer = setTimeout(() => {
11      reject(new Error("Timeout error"));
12    }, 2000);
13
14    const delay = Math.floor(Math.random() * 3000) + 500;
15  });
16 }
```

```
>>> Bài 18 - User fetched: { id: 1, name: 'User 1', email: 'user1@example.com' }
>>> Bài 19 - Users fetched: [
  { id: 1, name: 'User 1', email: 'user1@example.com' },
  { id: 2, name: 'User 2', email: 'user2@example.com' },
  { id: 3, name: 'User 3', email: 'user3@example.com' }
]
>>> Bài 20 - User fetched: { id: 1, name: 'User 1', email: 'user1@example.com' }
Parallel results: [ 'Task done', 'Task done', 'Task done' ]
```

The image shows a screenshot of the Visual Studio Code (VS Code) editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, and a search icon. The Explorer sidebar on the left shows a workspace named 'week02' with a folder 'src' containing several TypeScript files: bai11.ts, bai12.ts, bai13.ts, bai14.ts, bai15.ts, bai16.ts, bai17.ts, bai18.ts, bai19.ts, bai20.ts, bai21.ts, bai22.ts, bai23.ts, bai24.ts, bai25.ts, and bai26.ts. The main editor area displays the content of three files: 'bai21.ts', 'bai22.ts', and 'bai24.ts'. The code in 'bai21.ts' defines an async function 'bai21()' that returns a Promise. The code in 'bai22.ts' defines an interface 'Todo' and an async function 'bai22()' that returns a Promise. The code in 'bai24.ts' defines a class 'bai24' with a static async function 'postData()' that returns a Promise. The status bar at the bottom shows the current file is 'bai24.ts' and the language is 'TypeScript'. The status bar also shows the current line and column: 'Ln 1, Col 1'. The status bar also shows the current encoding: 'UTF-8'. The status bar also shows the current line ending: 'LF'. The status bar also shows the current file type: 'TypeScript'. The status bar also shows the current file path: 'Go Live'.

```
Bài 21 - Result: { userId: 1, id: 1, title: 'delectus aut autem', completed: false }
>>> Bài 22 - Todo 1: { userId: 1, id: 1, title: 'delectus aut autem', completed: false }
>>> Bài 22 - Todo 2: {
  userId: 1,
  id: 2,
  title: 'quis ut nam facilis et officia qui',
  completed: false
}
>>> Bài 22 - Todo 3: { userId: 1, id: 3, title: 'fugiat veniam minus', completed: false }
>>> Bài 23 - Completed Todos: [
  { userId: 1, id: 4, title: 'et porro tempora', completed: true },
  {
    userId: 1,
    id: 8,
    title: 'quo adipisci enim quam ut ab',
    completed: true
  },
  {
    userId: 1,
    id: 10,
    title: 'illo est ratione doloremque quia maiores aut',
    completed: true
  },
  {
>>> Bài 24 - Response: {
  title: 'Hello world',
  body: 'This is a test post',
  userId: 1,
  id: 101
}
```


Bai25,26,27,28

```
src > TS bai25.ts > bai25
You, 5 minutes ago | 1 author (You)
1 export default class bai25 {
2   static async downloadFile(): Promise<void> {
3     console.log("Bài 25 - Bắt đầu tải file...");
4
5     await new Promise<void>((resolve) => {
6       setTimeout(() => {
7         console.log("Bài 25 - Tải file hoàn tất sau 3 giây!");
8         resolve();
9       }, 3000)
10    });
11  }
12 }
13

src > TS bai26.ts > bai26
You, 5 minutes ago | 1 author (You)
1 export default class bai26 {
2   static async waitFiveSeconds(): Promise<void> {
3     console.log("Bài 26 - Bắt đầu chờ 5 giây...");
4
5     await new Promise<void>((resolve) => {
6       setTimeout(() => {
7         console.log("Bài 26 - Đã chờ xong 5 giây!");
8         resolve();
9       }, 5000)
10    });
11  }
12 }
13

src > TS bai27.ts > bai27
You, 5 minutes ago | 1 author (You)
1 export default class bai27 {
2   static async fetchWithRetry(url: string, retries: number):
3   for (let attempt = 1; attempt <= retries; attempt++) {
4     try {
5       console.log(`Bài 27 - Attempt ${attempt} gọi API: ${url}`);
6       const response = await fetch(url);
7
8       if (!response.ok) {
9         throw new Error("HTTP error! Status: ${response.status}");
10      }
11
12      const data = await response.json();
13      console.log("Bài 27 - Thành công:", data);
14      return data;
15    } catch (error) {
16      console.log(`Attempt ${attempt} failed: ${error.message}`);
17    }
18  }
19 }
20

src > TS bai28.ts > bai28
You, 5 minutes ago | 1 author (You)
1 export default class bai28 {
2   // Mô phỏng một async task (mất 1-3 giây)
3   private static async simulateTask(id: number): Promise<string> {
4     const time = Math.floor(Math.random() * 2000) + 1000;
5     return new Promise((resolve) => {
6       setTimeout(() => resolve(`Task ${id} completed in ${time} ms`), time);
7     });
8   }
9
10  static async batchProcess(): Promise<void> {
11    console.log("Bài 28 - Bắt đầu chạy 5 tasks song song...");
12
13    const tasks = [
14      this.simulateTask(1),
15      this.simulateTask(2),
16      this.simulateTask(3),
17      this.simulateTask(4),
18      this.simulateTask(5)
19    ];
20    await Promise.all(tasks);
21  }
22 }
```

Bài 25 - Tải file hoàn tất sau 3 giây!

Bài 26 - Đã chờ xong 5 giây!

Task 3 completed in 2264 ms

Task 4 completed in 2846 ms

Task 5 completed in 1306 ms

Bài 27 - Attempt 1 gọi API: <https://jsonplaceholder.typicode.com/posts/1>

Square: 4

Double: 8

Add 5: 13

Bài 28 - Kết quả: [

'Task 1 completed in 1747 ms',

'Task 2 completed in 1804 ms',

'Task 3 completed in 1402 ms',

'Task 4 completed in 2534 ms',

'Task 5 completed in 1185 ms'

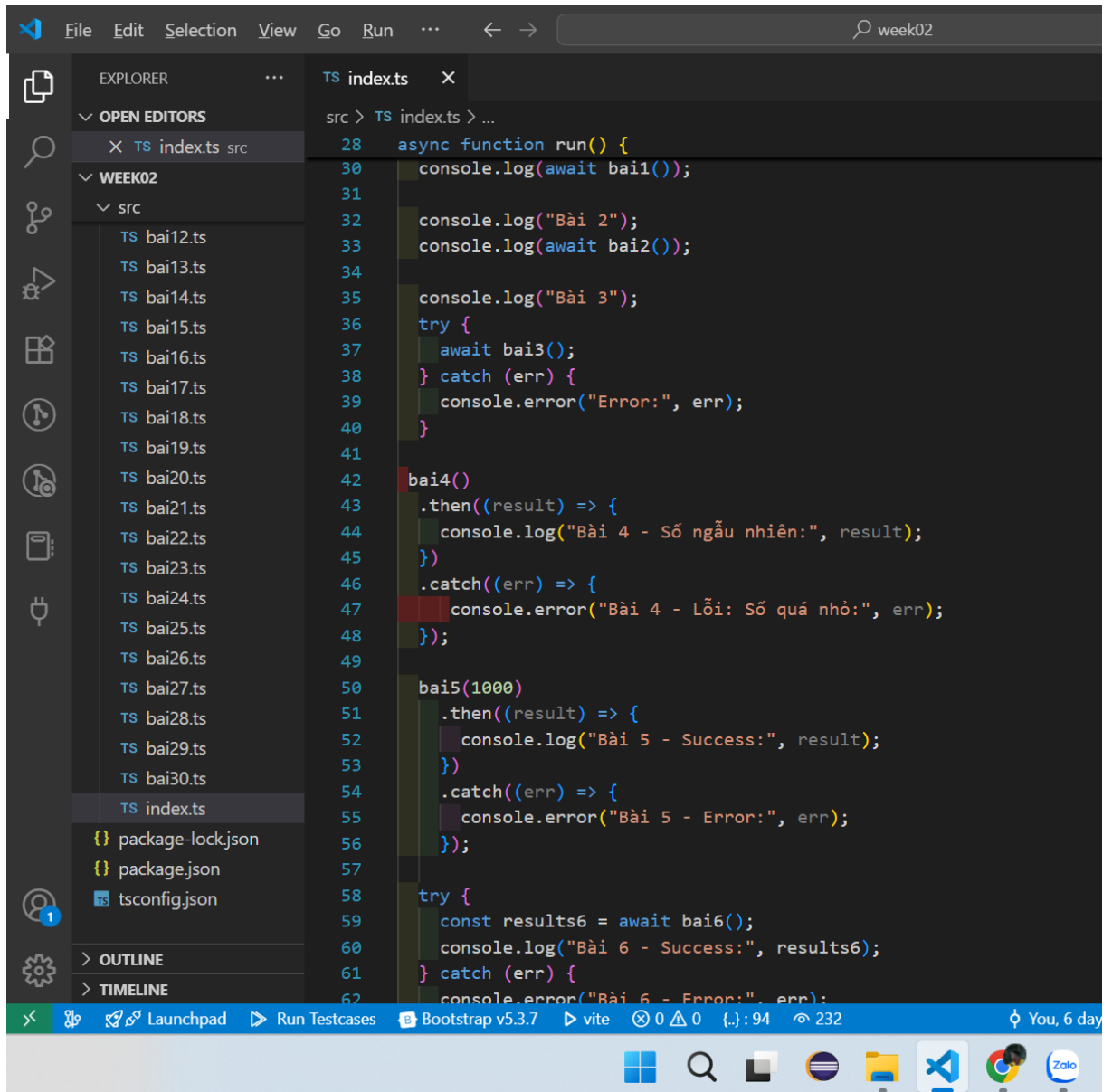
]

Task 3: Task done

```

src > TS bai29.ts > bai29
1 export default class bai29 {
2   // Mô phỏng một async task (mất 1-3 giây)
3   private static async simulateTask(id: number): Promise<string> {
4     const time = Math.floor(Math.random() * 2000) + 1000; //
5     return new Promise((resolve) => {
6       setTimeout(() => {
7         const msg = `Task ${id} completed in ${time} ms`;
8         console.log(msg);
9         resolve(msg);
10      }, time);
11    });
12  }
13
14  static async queueProcess(): Promise<void> {
15    console.log("Bài 29 - Bắt đầu chạy tasks theo hàng đợi...");
16
17    const tasks = [1, 2, 3, 4, 5];
18
19    for (const id of tasks) {
20      await this.simulateTask(id); // chạy lần lượt từng task
21    }
22
23    console.log("Bài 29 - Tất cả tasks đã hoàn thành theo hàng đợi.");
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File index.ts



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EXPLORER
  OPEN EDITORS
    TS index.ts src
  WEEK02
    src
      TS bai12.ts
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      TS bai15.ts
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      TS bai29.ts
      TS bai30.ts
      TS index.ts
      {} package-lock.json
      {} package.json
      tsconfig.json
  OUTLINE
  TIMELINE

src > TS index.ts > ...
28  async function run() {
29
30      console.log(await bai1());
31
32      console.log("Bài 2");
33      console.log(await bai2());
34
35      console.log("Bài 3");
36      try {
37          await bai3();
38      } catch (err) {
39          console.error("Error:", err);
40      }
41
42      bai4()
43      .then((result) => {
44          console.log("Bài 4 - Số ngẫu nhiên:", result);
45      })
46      .catch((err) => {
47          console.error("Bài 4 - Lỗi: Số quá nhỏ:", err);
48      });
49
50      bai5(1000)
51      .then((result) => {
52          console.log("Bài 5 - Success:", result);
53      })
54      .catch((err) => {
55          console.error("Bài 5 - Error:", err);
56      });
57
58      try {
59          const results6 = await bai6();
60          console.log("Bài 6 - Success:", results6);
61      } catch (err) {
62          console.error("Bài 6 - Error:", err);
63      }
64
65      }
66  }
```