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### JAWABAN TES FORMATIF 3

1. B
2. D
3. A
4. B
5. C
6. C
7. A
8. D
9. D
10. C

### SOAL ESSAI

#### 1. Typescript Asinkronus

```
C: > Users > hp > typescript-file-reader > src > TS index.ts > readFileSync
1  import { promises as fs } from 'fs';
2  import { join } from 'path';
3
4  async function readFileAsync(filePath: string): Promise<void> {
5      try {
6          const data = await fs.readFile(filePath, 'utf-8');
7          console.log(data);
8      } catch (error) {
9          console.error('Error reading file:', error);
10     }
11 }
12
13 // Gunakan __dirname untuk mendapatkan direktori saat ini dan kembali satu level ke direktori src
14 const filePath = join(__dirname, '..', 'src', 'example.txt');
15 readFileAsync(filePath);
16
```

```
C: > Users > hp > typescript-file-reader > src > example.txt
1  echo "Ini adalah contoh isi file yang akan dibaca secara asinkron oleh program TypeScript."
2  |
```

```

C: > Users > hp > typescript-file-reader > {} package.json > {} scripts
1  {
2    "name": "typescript-file-reader",
3    "version": "1.0.0",
4    "main": "index.js",
5    "scripts": {
6      "build": "tsc && cp src/example.txt dist/",
7      "start": "node dist/index.js"
8    },
9    "keywords": [],
10   "author": "",
11   "license": "ISC",
12   "description": "",
13   "devDependencies": {
14     "@types/node": "^20.12.12",
15     "typescript": "^5.4.5"
16   }
17 }
18

```

output

```

C:\Users\hp\typescript-file-reader>npm start
> typescript-file-reader@1.0.0 start
> node dist/index.js

echo "Ini adalah contoh isi file yang akan dibaca secara asinkron oleh program TypeScript." >
C:\Users\hp\typescript-file-reader>

```

## 2. RESTful API

```

C: > Users > hp > readfile-api > {} package.json > ...
1  {
2    "name": "readfile-api",
3    "version": "1.0.0",
4    "main": "index.js",
5    "scripts": {
6      "start": "ts-node src/server.ts"
7    },
8    "keywords": [],
9    "author": "",
10   "license": "ISC",
11   "dependencies": {
12     "@types/express": "^4.17.21",
13     "@types/node": "^20.12.12",
14     "body-parser": "^1.20.2",
15     "express": "^4.19.2",
16     "ts-node": "^10.9.2",
17     "typescript": "^5.4.5"
18   },
19   "description": ""

```

```

C: > Users > hp > readfile-api > src > TS server.ts > ...
1  import express from 'express';
2  import bodyParser from 'body-parser';
3  import fs from 'fs/promises';
4  import path from 'path';
5
6  const app = express();
7  const port = 3000;
8
9  app.use(bodyParser.json());
10
11  // Endpoint untuk membaca dan menampilkan file secara asinkron
12  app.get('/readfile', async (req, res) => {
13      try {
14          const filePath = path.join(__dirname, 'data.txt'); // Pastikan fi
15          const data = await fs.readFile(filePath, 'utf-8');
16          res.send(data);
17      } catch (error) {
18          res.status(500).send({ error: 'Error reading file' });
19      }
20  });
21
22  app.listen(port, () => {
23      console.log(`Server is running on http://localhost:${port}`);
24  });
25

```

```

C: > Users > hp > readfile-api > src > data.txt
1  Hallo nama saya Yati Sumiati
2

```

Output :

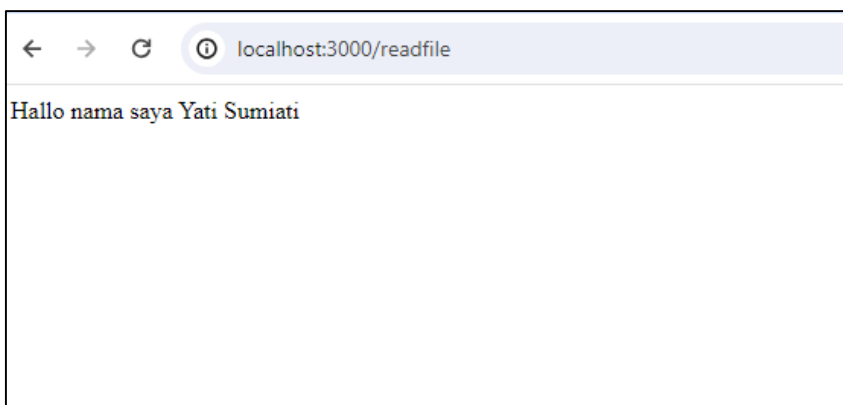
```

C:\Users\hp\readfile-api>npm start

> readfile-api@1.0.0 start
> ts-node src/server.ts

Server is running on http://localhost:3000

```



A screenshot of a web browser window. The address bar shows 'localhost:3000/readfile'. The main content area of the browser displays the text 'Hallo nama saya Yati Sumiati'.