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Mata Kuliah : Aplikasi Berbasis Platform
Tugas : Ujian Tengah Semester

Latihan

1. Program typescript asynchronus

```
1  import { promises as fs } from "fs";
2
3  async function readFileAsync(filePath: string): Promise<void> {
4      try {
5          const data = await fs.readFile(filePath, 'utf-8');
6          console.log(data);
7      } catch (error) {
8          console.error('Error reading file: ${error.message}');
9      }
10 }
11
12 const filePath = 'src/example.txt';
13 readFileAsync(filePath);
```

```
src > example.txt
1  Hai, ini adalah contoh nya
```

Output

```
● PS C:\laragon\www\utsprogerak\soal1> node dist/readFile.js
Hai, ini adalah contoh nya
● PS C:\laragon\www\utsprogerak\soal1>
```

2. Program typescript restful api

```
src > index.ts > ...
1  import express from "express";
2  import { Request, Response } from "express";
3  import * as fs from "fs";
4
5  const app = express();
6  const port = 3000;
7
8  const jsonData = JSON.parse(fs.readFileSync('./src/resources/sample.json', 'utf-8'));
9
10 app.get('/data', (req: Request, res: Response) => {
11     res.json(jsonData);
12 });
13
14 app.listen(port, () => {
15     console.log(`Server berjalan di ${port}`);
16 });
```

```
src > resources > sample.json > ...
1  {
2    "aliceblue": "#f0f8ff",
3    "antiquewhite": "#faebd7",
4    "aqua": "#00ffff",
5    "aquamarine": "#7fffd4",
6    "azure": "#f0ffff",
7    "beige": "#f5f5dc",
8    "bisque": "#ffe4c4",
9    "black": "#000000",
10   "blanchedalmond": "#ffebed",
11   "blue": "#0000ff",
12   "blueviolet": "#8a2be2",
13   "brown": "#a52a2a"
14 }
```

Output

GET localhost:3000/data + ...

localhost:3000/data Save

GET localhost:3000/data Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	

Body Cookies Headers (7) Test Results Status: 200 OK Time: 28 ms Size: 482 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "aliceblue": "#f0f8ff",
3    "antiquewhite": "#faebd7",
4    "aqua": "#00ffff",
5    "aquamarine": "#7fffd4",
6    "azure": "#f0ffff",
7    "beige": "#f5f5dc",
8    "bisque": "#ffe4c4",
9    "black": "#000000",
10   "blanchedalmond": "#ffebed",
11   "blue": "#0000ff",
12   "blueviolet": "#8a2be2",
13   "brown": "#a52a2a"
14 }
```