

2311104027

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```
1  import { readFile } from 'fs/promises';
2
3  async function readJSON() {
4      try {
5          const data = await readFile('jurnal7_1_2311104027.json', 'utf8');
6          const obj = JSON.parse(data);
7
8          console.log(`
9  ===== HASIL DESERIALISASI =====
10  Nama      : ${obj.firstName} ${obj.lastName}
11  Jenis Kelamin : ${obj.gender}
12  Usia      : ${obj.age}
13  Alamat:
14  Jalan      : ${obj.address.streetAddress}
15  Kota       : ${obj.address.city}
16  Provinsi   : ${obj.address.state}
17  =====
18  `);
19      } catch (err) {
20          console.error('Gagal membaca file:', err.message);
21      }
22  }
23
24  readJSON();
25
```

Kode ini berfungsi untuk membaca file JSON jurnal7_1_2311104027.json, mengubah isinya menjadi objek JavaScript, lalu menampilkan informasi identitas dan alamat ke konsol.

```
{
  "firstName": "Haikal",
  "lastName": "Fadhilah",
  "gender": "Male",
  "age": 21,
  "address": {
    "streetAddress": "Sokanandi",
    "city": "Banjarnegara",
    "state": "Central Java"
  }
}
```

```

1  import { readFile } from 'fs/promises';
2
3  async function readGlossaryJSON() {
4      try {
5          const data = await readFile('jurnal7_3_2311104027.json', 'utf8');
6          const obj = JSON.parse(data);
7          const entry = obj.glossary?.GlossDiv?.GlossList?.GlossEntry;
8
9          if (!entry) {
10             console.log("Data glossary tidak ditemukan.");
11             return;
12         }
13
14         console.log(`
15 ===== GLOSSARY ENTRY =====
16 ID          : ${entry.ID}
17 SortAs      : ${entry.SortAs}
18 Term        : ${entry.GlossTerm}
19 Acronym     : ${entry.Acronym}
20 Abbrev      : ${entry.Abbrev}
21 Definition  : ${entry.GlossDef?.para}
22 See Also    : ${(entry.GlossDef?.GlossSeeAlso || []).join(', ')}
23 GlossSee    : ${entry.GlossSee}
24 =====
25         `);
26     } catch (err) {
27         console.error("Gagal membaca file atau memproses data:", err.message);
28     }
29 }
30
31 readGlossaryJSON();

```

Kode ini berfungsi untuk membaca file JSON jurnal7_3_2311104027.json, mengambil data glossary secara bertingkat, dan menampilkannya ke konsol jika tersedia.

```

1  {
2      "glossary": {
3          "title": "example glossary",
4          "GlossDiv": {
5              "title": "S",
6              "GlossList": {
7                  "GlossEntry": {
8                      "ID": "SGML",
9                      "SortAs": "SGML",
10                     "GlossTerm": "Standard Generalized Markup Language",
11                     "Acronym": "SGML",
12                     "Abbrev": "ISO 8879:1986",
13                     "GlossDef": {
14                         "para": "A meta-markup language, used to create markup languages such as DocBook.",
15                         "GlossSeeAlso": ["GML", "XML"]
16                     },
17                     "GlossSee": "markup"
18                 }
19             }
20         }
21     }
22 }

```

```

1  import { readFile } from 'fs/promises';
2
3  async function readTeamMembers() {
4      try {
5          const data = await readFile('jurnal7_2_2311104027.json', 'utf8');
6          const { members } = JSON.parse(data);
7
8          console.log("==== DAFTAR ANGGOTA TIM =====");
9          for (const m of members) {
10             console.log(`- ${m.nim} | ${m.firstName} ${m.lastName} | ${m.age} tahun | ${m.gender}`);
11          }
12          console.log("=====");
13      } catch (err) {
14          console.error("Gagal membaca file:", err.message);
15      }
16  }
17
18  readTeamMembers();

```

Kode ini berfungsi untuk membaca file JSON jurnal7_2_2311104027.json, mengakses daftar anggota tim, lalu menampilkan data masing-masing anggota ke konsol secara terformat.

```
1  {
2  "members" : [
3    {
4      "firstName": "Andika",
5      "lastName": "Rifki Pratama",
6      "gender": "male",
7      "age": 20,
8      "nim": "2311104011"
9    },
10   {
11     "firstName": "Ardhian",
12     "lastName": "Dwi Saputra",
13     "gender": "male",
14     "age": 20,
15     "nim": "2311104013"
16   },
17   {
18     "firstName": "Farrel",
19     "lastName": "Izaz Yuwono",
20     "gender": "male",
21     "age": 20,
22     "nim": "2311104014"
23   },
24   {
25     "firstName": "Hafizh",
26     "lastName": "Dwi Andhika",
27     "gender": "male",
28     "age": 20,
29     "nim": "2311104013"
30   }
31 ]
32 }
```