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## LAPORAN TUGAS JURNAL MODUL 8

Source Code

App.js

```
1  const readline = require('readline');
2  const BankTransferConfig = require('./BankTransferConfig');
3
4  const rl = readline.createInterface({ input: process.stdin, output: process.
  stdout });
5  function question(prompt) {
6    return new Promise(resolve => rl.question(prompt, resolve));
7  }
8
9  async function main() {
10   const config = new BankTransferConfig().config;
11   const language = config.lang;
12
13   const amountInput = await question(language === 'id' ?
  'Masukkan jumlah transfer: ' : 'Enter amount to transfer: ');
14   const amount = parseInt(amountInput);
15
16   const fee = amount <= config.transfer.threshold ? config.transfer.low_fee
  : config.transfer.high_fee;
17   const total = amount + fee;
18
19   console.log(language === 'id' ? `Biaya transfer = ${fee}` :
  `Transfer fee = ${fee}`);
20   console.log(language === 'id' ? `Total biaya = ${total}` :
  `Total amount = ${total}`);
21
22   console.log(language === 'id' ? 'Pilih metode transfer:' :
  'Choose transfer method:');
23   config.methods.forEach((method, idx) => console.log(`${idx + 1}. ${method
  }`));
24   await question(language === 'id' ? 'Masukkan pilihan metode: ' :
  'Enter transfer method number: ');
25
26   const confirmInput = await question(language === 'id' ? `Ketik "${config.
  confirmation.id}" untuk konfirmasi: ` : `Type "${config.confirmation.en}
  " to confirm: `);
27   const validConfirm = language === 'id' ? config.confirmation.id : config.
  confirmation.en;
28
29   if (confirmInput.trim().toLowerCase() === validConfirm) {
30     console.log(language === 'id' ? 'Transfer berhasil.' :
  'Transfer completed.');
```

BankTransferConfig

```

1  const fs = require('fs');
2
3  class BankTransferConfig {
4      constructor(filename = 'bank_transfer_config.json') {
5          this.filename = filename;
6          this.config = this.loadOrDefault();
7      }
8
9      loadOrDefault() {
10         if (fs.existsSync(this.filename)) {
11             const data = fs.readFileSync(this.filename);
12             return JSON.parse(data);
13         } else {
14             const defaultData = {
15                 lang: "en",
16                 transfer: {
17                     threshold: 25000000,
18                     low_fee: 6500,
19                     high_fee: 15000
20                 },
21                 methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
22                 confirmation: {
23                     en: "yes",
24                     id: "ya"
25                 }
26             };
27             fs.writeFileSync(this.filename, JSON.stringify(defaultData, null
28 , 2));
29             return defaultData;
30         }
31     }
32
33     module.exports = BankTransferConfig;

```

JSON:

```

1  {
2      "lang": "en",
3      "transfer": {
4          "threshold": 25000000,
5          "low_fee": 6500,
6          "high_fee": 15000
7      },
8      "methods": ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
9      "confirmation": {
10         "en": "yes",
11         "id": "ya"
12     }
13 }
14

```

## Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603> cd 08 Runtime-configuration-dan-internationalization
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603\08_Runtime-configuration-dan-internationalization> cd JURNAL
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603\08_Runtime-configuration-dan-internationalization\JURNAL> node app.js
Enter amount to transfer: 50000
Transfer fee = 6500
Total amount = 56500
Choose transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
Enter transfer method number: 4
Type "yes" to confirm: yes
Transfer completed.
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603\08_Runtime-configuration-dan-internationalization\JURNAL> node app.js
Type "yes" to confirm: yes
Transfer completed.
Type "yes" to confirm: yes
Type "yes" to confirm: yes
Transfer completed.
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603\08_Runtime-configuration-dan-internationalization\JURNAL> node app.js
Enter amount to transfer: 100000
Transfer fee = 6500
Total amount = 106500
Choose transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
Enter transfer method number: 2
Type "yes" to confirm: yes
Transfer completed.
PS D:\KPL_Mohammad Fathurrohman_2211104070_SE0603\08_Runtime-configuration-dan-internationalization\JURNAL> |
```

## Penjelasan:

Kode ini adalah program sederhana untuk mensimulasikan transfer bank. Program ini membaca konfigurasi dari file **BankTransferConfig.js** (yang tidak disertakan dalam kode ini), meminta jumlah transfer dari pengguna, menghitung biaya transfer berdasarkan jumlah tersebut, menampilkan total biaya, meminta metode transfer, dan meminta konfirmasi sebelum menyelesaikan transfer. Teks yang ditampilkan ke pengguna disesuaikan berdasarkan bahasa yang dikonfigurasi dalam file konfigurasi. Program ini menggunakan **readline** untuk berinteraksi dengan pengguna melalui terminal.