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LAPORAN TUGAS JURNAL MODUL 8

Source Code

App.js

```javascript
const readline = require('readline');
const BankTransferConfig = require('./BankTransferConfig');

const rl = readline.createInterface({ input: process.stdin, output: process.stdout });
function question(prompt) {
    return new Promise(resolve => rl.question(prompt, resolve));
}

async function main() {
    const config = new BankTransferConfig().config;
    const language = config.lang;

    const amountInput = await question(language === 'id' ? 'Masukkan jumlah transfer: ' : 'Enter amount to transfer: ');
    const amount = parseInt(amountInput);

    const fee = amount <= config.transfer.threshold ? config.transfer.low_fee : config.transfer.high_fee;
    const total = amount + fee;

    console.log(language === 'id' ? `Biaya transfer = ${fee}` : `Transfer fee = ${fee}`);
    console.log(language === 'id' ? `Total biaya = ${total}` : `Total amount = ${total}`);

    console.log(language === 'id' ? 'Pilih metode transfer:' : 'Choose transfer method:');
    config.methods.forEach((method, idx) => console.log(`${idx + 1}. ${method}`));
    await question(language === 'id' ? 'Masukkan pilihan metode: ' : 'Enter transfer method number: ');

    const confirmInput = await question(language === 'id' ? `Ketik "${config.confirmation.id}" untuk konfirmasi: ` : `Type "${config.confirmation.en}" to confirm: `);
    const validConfirm = language === 'id' ? config.confirmation.id : config.confirmation.en;

    if (confirmInput.trim().toLowerCase() === validConfirm) {
        console.log(language === 'id' ? 'Transfer berhasil.' : 'Transfer completed.');
    } else {
        console.log(language === 'id' ? 'Transfer dibatalkan.' : 'Transfer cancelled.');
    }

    rl.close();
}

main();
```

BankTransferConfig

```javascript
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, 2));
28              return defaultData;
29          }
30      }
31  }
32
33  module.exports = BankTransferConfig;
```

JSON :

```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 :

```
Lenovo@IDP-Gaming3 MINGW64 /d/PERKULIAHAN/FOLDER SEMESTER 6/prak KPL/REPOSITORI/KPL_DZIKRI_NAUFAL_WISNU_PRAVIDA_2211104063_SE0603/08_Runtime-configu
ration-dan-internationalization/JURNAL (main)
$ node app.js
Enter amount to transfer: 1000000
Transfer fee = 6500
Total amount = 1006500
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.

Lenovo@IDP-Gaming3 MINGW64 /d/PERKULIAHAN/FOLDER SEMESTER 6/prak KPL/REPOSITORI/KPL_DZIKRI_NAUFAL_WISNU_PRAVIDA_2211104063_SE0603/08_Runtime-configu
ration-dan-internationalization/JURNAL (main)
$ 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: 3
Type "yes" to confirm: no
Transfer cancelled.
```

Penjelasan :

Program ini adalah aplikasi transfer uang berbasis console menggunakan Node.js, yang memanfaatkan file konfigurasi bank_transfer_config.json melalui class BankTransferConfig. Saat dijalankan, program meminta input jumlah uang yang akan ditransfer, menghitung biaya berdasarkan ambang batas (threshold) dan bahasa yang dipilih, menampilkan metode transfer, lalu meminta konfirmasi transaksi; hasil akhirnya menunjukkan apakah transfer berhasil atau dibatalkan.