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LAPORAN TUGAS JURNAL MODUL 8

Sc :

App.js

```javascript
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.');
31      } else
32          console.log(language === 'id' ? 'Transfer dibatalkan.' : 'Transfer cancelled.');
33      }
34
35      rl.close();
36  }
37
38  main();
```

BankTransferConfig.js

```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
{
    "lang": "en",
    "transfer": {
        "threshold": 25000000,
        "low_fee": 6500,
        "high_fee": 15000
    },
    "methods": [
    "RTO (real-time)", "SKN", "RTGS"
    , "BI FAST"],
    "confirmation": {
        "en": "yes",
        "id": "ya"
    }
}
```

Output

```
mac@M1-Julian JURNAL % node app.js
Enter amount to transfer: 150000
Transfer fee = 6500
Total amount = 156500
Choose transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
Enter transfer method number: 1
Type "yes" to confirm: yes
Transfer completed.
mac@M1-Julian JURNAL % 10000
zsh: command not found: 10000
mac@M1-Julian 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: 3
Type "yes" to confirm: no
Transfer cancelled.
mac@M1-Julian JURNAL %
```

Penjelasan

Program ini merupakan aplikasi console berbasis Node.js untuk melakukan transfer uang. Aplikasi ini menggunakan file konfigurasi bank_transfer_config.json melalui class BankTransferConfig. Saat dijalankan, pengguna diminta memasukkan nominal uang yang ingin ditransfer. Program kemudian menghitung biaya transfer berdasarkan ambang batas dan bahasa yang dipilih. Setelah itu, metode transfer ditampilkan dan pengguna diminta memberikan konfirmasi. Di akhir proses, program akan menampilkan apakah transaksi berhasil dilakukan atau dibatalkan.