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## JURNAL MODUL 8

### 1) BankTransferConfig.js

```
const fs = require('fs');

class BankTransferConfig {
  constructor() {
    this.filePath = 'bank_transfer_config.json';
    this.config = {
      lang: "en",
      transfer: {
        threshold: 25000000,
        low_fee: 6500,
        high_fee: 15000
      },
      methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
      confirmation: {
        en: "yes",
        id: "ya"
      }
    };

    this.loadConfig();
  }

  loadConfig() {
    if (fs.existsSync(this.filePath)) {
```

```

        const data = fs.readFileSync(this.filePath, 'utf-8');
        this.config = JSON.parse(data);
    } else {
        this.saveConfig();
    }
}

saveConfig() {
    fs.writeFileSync(this.filePath, JSON.stringify(this.config, null, 4));
}

getConfig() {
    return this.config;
}
}

module.exports = BankTransferConfig;

```

## 2) Main.js

```

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

const rl = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});

const configHandler = new BankTransferConfig();
const config = configHandler.getConfig();

// Step 1: Tanyakan jumlah uang

```

```
const promptAmount = config.lang === 'en'
  ? "Please insert the amount of money to transfer: "
  : "Masukkan jumlah uang yang akan di-transfer: ";

rl.question(promptAmount, (amountInput) => {
  const amount = parseInt(amountInput);

  // Step 2: Hitung biaya transfer
  let fee = amount <= config.transfer.threshold
    ? config.transfer.low_fee
    : config.transfer.high_fee;
  const total = amount + fee;

  if (config.lang === 'en') {
    console.log(`Transfer fee = ${fee}`);
    console.log(`Total amount = ${total}`);
  } else {
    console.log(`Biaya transfer = ${fee}`);
    console.log(`Total biaya = ${total}`);
  }

  // Step 3: Pilih metode transfer
  const promptMethod = config.lang === 'en'
    ? "Select transfer method:"
    : "Pilih metode transfer:";
  console.log(promptMethod);

  config.methods.forEach((method, index) => {
    console.log(`${index + 1}. ${method}`);
  });
});
```

```

rl.question('Choose method (1/2/3/4): ', (methodInput) => {
  const methodChoice = parseInt(methodInput);

  if (methodChoice < 1 || methodChoice > config.methods.length) {
    console.log("Invalid method selection.");
    rl.close();
    return;
  }

  // Step 4: Konfirmasi transaksi
  const confirmationPrompt = config.lang === 'en'
    ? `Please type "${config.confirmation.en}" to confirm the transaction: `
    : `Ketik "${config.confirmation.id}" untuk mengkonfirmasi transaksi: `;

  rl.question(confirmationPrompt, (confirmationInput) => {
    const confirm = confirmationInput.trim().toLowerCase();

    if ((config.lang === 'en' && confirm ===
config.confirmation.en.toLowerCase()) ||
        (config.lang === 'id' && confirm ===
config.confirmation.id.toLowerCase())) {
      const successMessage = config.lang === 'en'
        ? "The transfer is completed"
        : "Proses transfer berhasil";
      console.log(successMessage);
    } else {
      const cancelMessage = config.lang === 'en'
        ? "Transfer is cancelled"
        : "Transfer dibatalkan";
      console.log(cancelMessage);
    }
  })
}

```

```
        rl.close();
    });
});
});
```

### 3) bank\_transfer\_config.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 Program

```
Please insert the amount of money to transfer: 90000
Transfer fee = 6500
Total amount = 96500
Select transfer method:
1. RTO (real-time)
2. SKN
3. RTGS
4. BI FAST
Choose method (1/2/3/4): 4
Please type "yes" to confirm the transaction: yes
The transfer is completed
```

- Penjelasan Program

Program diatas adalah sistem yang sedang melakukan simulasi transfer uang dengan pilihan metode, perhitungan biaya, dan konfirmasi pengguna.

- a) BankTransferConfig.js

- Membaca atau menyimpan konfigurasi dari file bank\_transfer\_config.json.
- Menyediakan pengaturan seperti: bahasa, biaya transfer, metode transfer, dan kata konfirmasi.

- b) Main.js

- Minta pengguna memasukkan jumlah uang yang ingin ditransfer.
- Hitung biaya transfer:
  - a.  $\leq 25$  juta  $\rightarrow$  Rp 6.500
  - b.  $25$  juta  $\rightarrow$  Rp 15.000
- Tampilkan total biaya.
- Tampilkan metode transfer (4 pilihan).
- Minta konfirmasi (yes atau ya) sesuai bahasa.
- Jika benar  $\rightarrow$  tampilkan “transfer berhasil”, jika tidak  $\rightarrow$  “transfer dibatalkan”.

- c) bank\_transfer\_config.json

File konfigurasi yang menyimpan pengaturan bahasa, biaya, metode, dan kata konfirmasi.