

# **JURNAL MODUL 8**



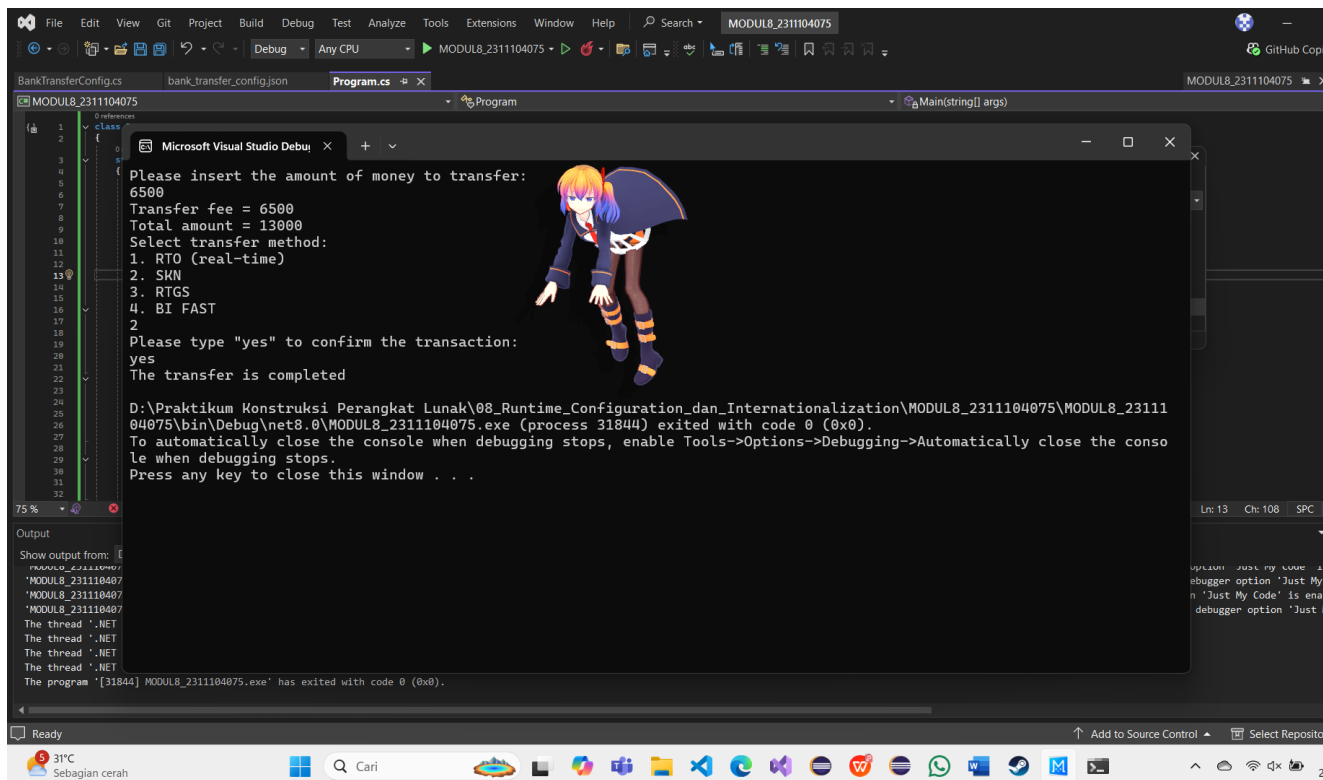
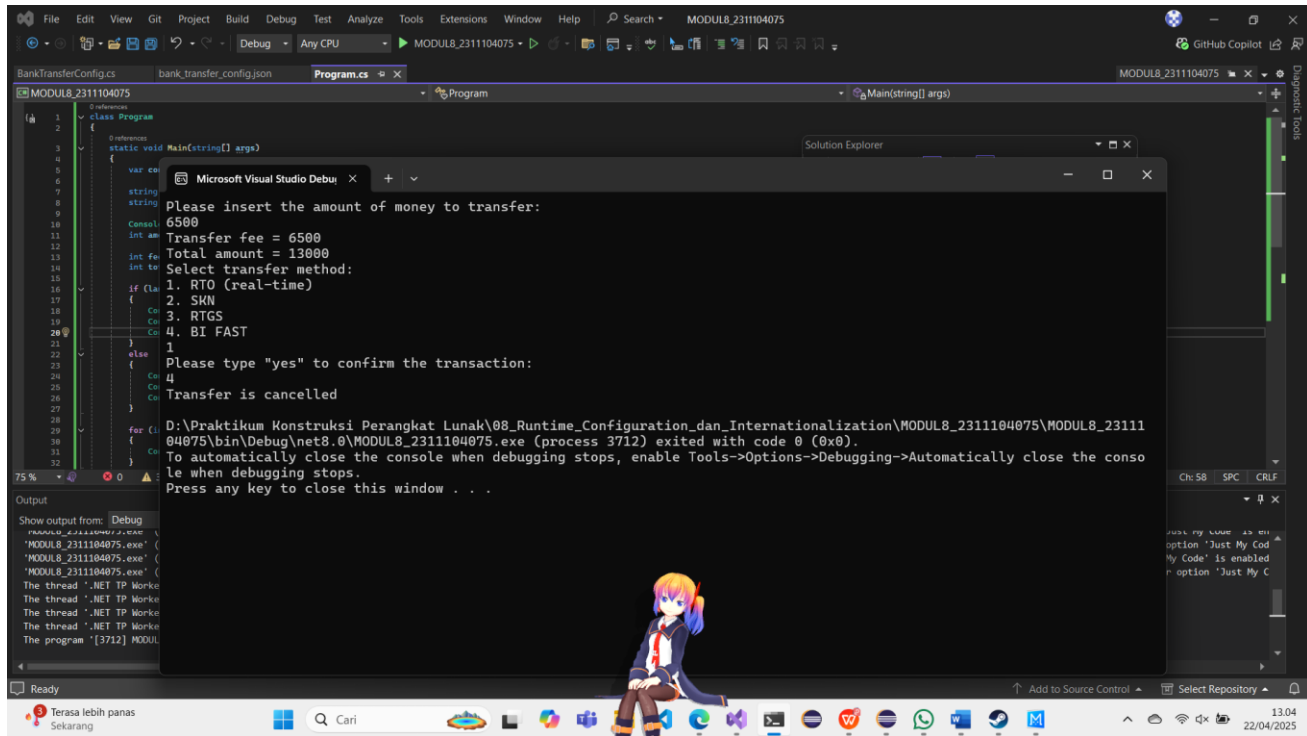
**Nama : Ganes Gemi Putra**  
**SE-07-02**  
**(2311104075)**

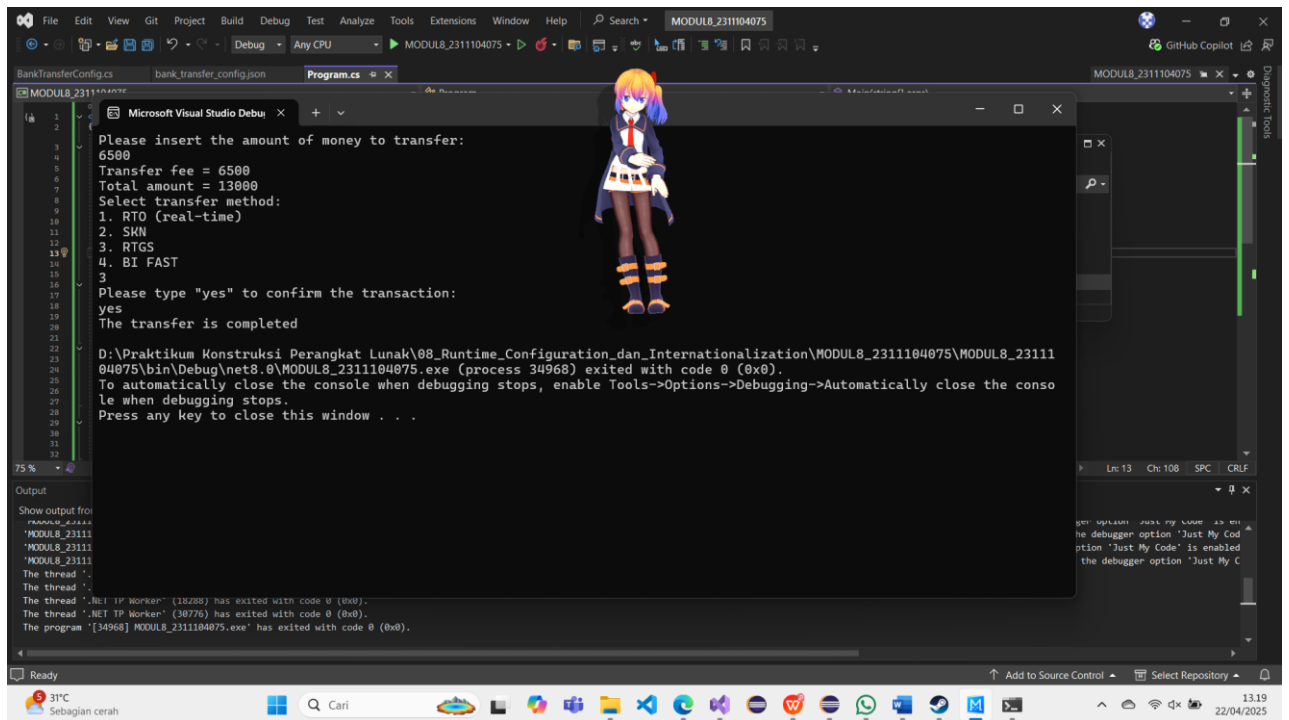
**Dosen : YUDHA ISLAMI SULISTYA**

**PROGRAM STUDI S1 SOFTWARE ENGINEERING**  
**FAKULTAS INFORMATIKA**  
**TELKOM UNIVERSITY**  
**PURWOKERTO**  
**2025**

[https://github.com/GANES2/KPL\\_GANESGEMIPUTRA\\_2311104075\\_SE-07-02/tree/main/08\\_Runtime\\_Configuration\\_dan\\_Internationalization](https://github.com/GANES2/KPL_GANESGEMIPUTRA_2311104075_SE-07-02/tree/main/08_Runtime_Configuration_dan_Internationalization)

## SCREENSHOOT :





```

1  Please insert the amount of money to transfer:
2  6500
3  Transfer fee = 6500
4  Total amount = 13000
5  Select transfer method:
6  1. RT0 (real-time)
7  2. SKN
8  3. RTGS
9  4. BI FAST
10 3
11 Please type "yes" to confirm the transaction:
12 yes
13 The transfer is completed
14
15 D:\Praktikum Konstruksi Perangkat Lunak\08_Runtime_Configuration_dan_Internationalization\MODUL8_2311104075\MODUL8_23111
16 04075\bin\Debug\net8.0\MODUL8_2311104075.exe (process 34968) exited with code 0 (0x0).
17 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
18 le when debugging stops.
19 Press any key to close this window . . .
20
21
22
23
24
25
26
27
28
29
30
31
32

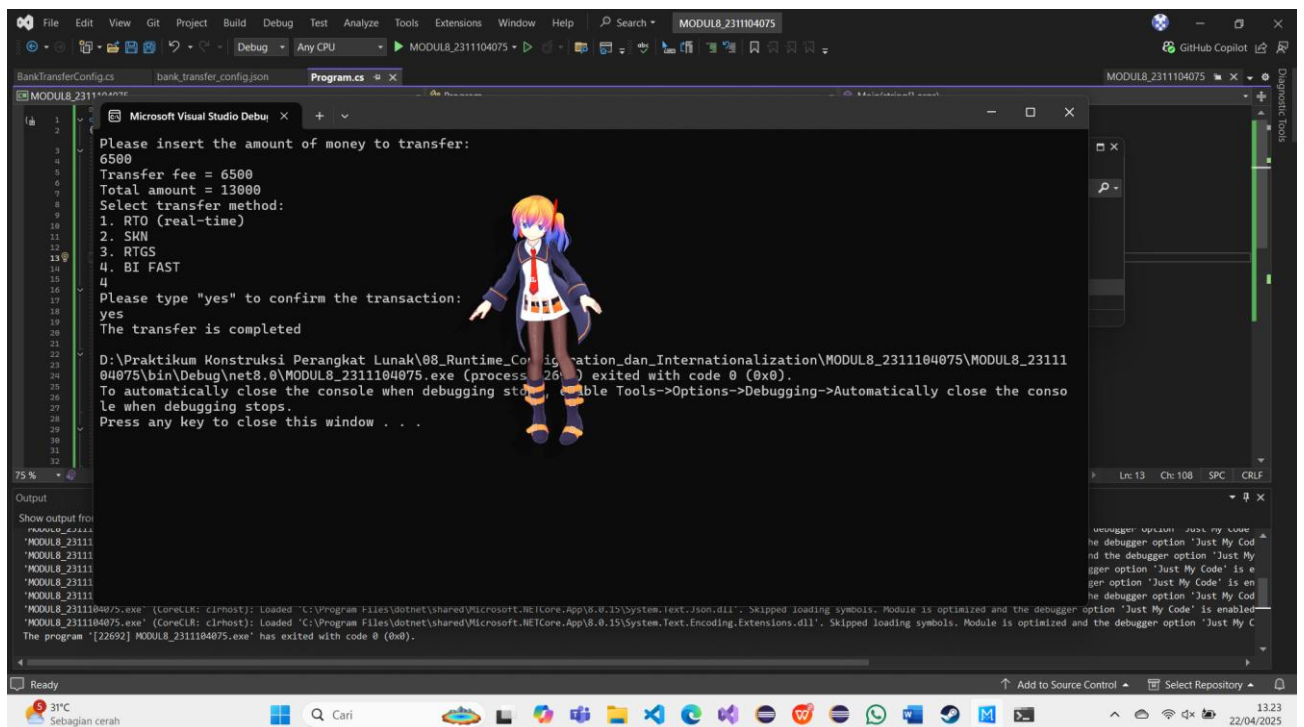
```

Output

```

Show output from
*MODUL8_23111
*MODUL8_23111
*MODUL8_23111
The thread ".
The thread ".
The thread ".NET TP Worker" (18288) has exited with code 0 (0x0).
The thread ".NET TP Worker" (30776) has exited with code 0 (0x0).
The program "[34968] MODUL8_2311104075.exe" has exited with code 0 (0x0).

```



```

1  Please insert the amount of money to transfer:
2  6500
3  Transfer fee = 6500
4  Total amount = 13000
5  Select transfer method:
6  1. RT0 (real-time)
7  2. SKN
8  3. RTGS
9  4. BI FAST
10 4
11 Please type "yes" to confirm the transaction:
12 yes
13 The transfer is completed
14
15 D:\Praktikum Konstruksi Perangkat Lunak\08_Runtime_Configuration_dan_Internationalization\MODUL8_2311104075\MODUL8_23111
16 04075\bin\Debug\net8.0\MODUL8_2311104075.exe (process 26...) exited with code 0 (0x0).
17 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
18 le when debugging stops.
19 Press any key to close this window . . .
20
21
22
23
24
25
26
27
28
29
30
31
32

```

Output

```

Show output from
*MODUL8_23111
*MODUL8_23111
*MODUL8_23111
*MODUL8_23111
*MODUL8_23111
"MODUL8_2311104075.exe" (CoreCLR: clrmst): Loaded "C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.15\System.Text.Json.dll". Skipped loading symbols. Module is optimized and the debugger option "Just My Code" is enabled
"MODUL8_2311104075.exe" (CoreCLR: clrmst): Loaded "C:\Program Files\dotnet\shared\Microsoft.NETCore.App\8.0.15\System.Text.Encoding.Extensions.dll". Skipped loading symbols. Module is optimized and the debugger option "Just My C
The program "[22692] MODUL8_2311104075.exe" has exited with code 0 (0x0).

```

## 1. Class BankTransferConfig dan Cara Membaca JSON

Class BankTransferConfig berfungsi untuk membaca konfigurasi dari file eksternal bank\_transfer\_config.json. Konfigurasi ini mencakup bahasa, nilai ambang batas (threshold), biaya transfer rendah (low\_fee) dan tinggi (high\_fee), metode transfer, dan kata konfirmasi transaksi.

File JSON dibaca menggunakan System.Text.Json, dan jika file tidak ditemukan, maka akan digunakan nilai default.

### ***Potongan kode:***

```
public static BankTransferConfig Load(string filePath)
{
    if (!File.Exists(filePath))
    {
        return new BankTransferConfig
        {
            lang = "en",
            transfer = new Transfer { threshold = 25000000, low_fee = 6500,
high_fee = 15000 },
            methods = new List<string> { "RTO (real-time)", "SKN", "RTGS", "BI
FAST" },
            confirmation = new Confirmation { en = "yes", id = "ya" }
        };
    }

    string json = File.ReadAllText(filePath);
    return JsonSerializer.Deserialize<BankTransferConfig>(json);
}
```

## 2. Logika Biaya Transfer dan Pemilihan Bahasa

Program meminta input jumlah uang yang akan ditransfer, lalu menghitung biaya transfer berdasarkan ambang batas (threshold) dari konfigurasi.

- Jika nominal  $\leq$  threshold, maka biaya = low\_fee
- Jika nominal  $>$  threshold, maka biaya = high\_fee

Bahasa yang digunakan (English atau Indonesia) ditentukan dari nilai "lang" pada file konfigurasi.

### ***Potongan kode:***

```
int fee = amount <= config.transfer.threshold ? config.transfer.low_fee :  
config.transfer.high_fee;  
int total = amount + fee;  
  
if (config.lang == "en")  
{  
    Console.WriteLine($"Transfer fee = {fee}");  
    Console.WriteLine($"Total amount = {total}");  
}  
else  
{  
    Console.WriteLine($"Biaya transfer = {fee}");  
    Console.WriteLine($"Total biaya = {total}");  
}
```

### 3. Tampilan Metode Transfer dan Konfirmasi Transaksi

Setelah perhitungan, program menampilkan metode transfer yang diambil dari `methods[]` dalam konfigurasi. Kemudian meminta konfirmasi transaksi (yes/ya) berdasarkan bahasa.

*Potongan kode:*

```
for (int i = 0; i < config.methods.Count; i++)
{
    Console.WriteLine($"{i + 1}. {config.methods[i]}");
}

string confirmWord = config.lang == "en" ? config.confirmation.en :
config.confirmation.id;
Console.WriteLine(config.lang == "en"
    ? $"Please type \"{confirmWord}\" to confirm the transaction:"
    : $"Ketik \"{confirmWord}\" untuk mengkonfirmasi transaksi:");

string confirmation = Console.ReadLine();
if (confirmation.ToLower() == confirmWord.ToLower())
{
    Console.WriteLine(config.lang == "en" ? "The transfer is completed" :
    "Proses transfer berhasil");
}
else
{
    Console.WriteLine(config.lang == "en" ? "Transfer is cancelled" : "Transfer
dibatalkan");
}
```

