


Soal Praktikum <i>Practicum Case</i>	
COMP6360 Algorithm and Programming	
Teknik Informatika <i>Computer Science</i>	CS-COMP6360-Var01
Periode Berlaku Mulai Semester Ganjil 2018/2017 Valid on Odd Semester Year 2018/2019	Revisi 01 Revision 01

Learning Outcomes

- Write a program in C language in problem solving

Topic

- Session 03 – Selection

Sub Topics

- Create a program using selection control

Soal

Case

“Simple Phone Service” is a simulation program that designed to check remaining balance, reload, and transfer balance. Here are the descriptions of the program :

- At the beginning of the program, user is asked to input **username** and **password**. The username and password must be “**phone**”. In addition, user has Rp 250.000 for their balance.
- Program consists of 4 menus :
 1. Remaining Balance
 2. Reload
 3. Transfer Balance
 4. Exit
- User must choose a menu
- If user chooses **Remaining Balance** (menu '1'), then :
 - Show the user's **remaining balance** and **phone number validity**.
 - System says “*Thank you for using this application.*”
- If user chooses **Reload** (menu '2'), then :
 - Show current user balance and the reload menu that consist of 4 menus:
 1. Rp 50.000
 2. Rp 100.000
 3. Rp 150.000
 4. Rp 200.000
 - User must choose a product number to reload
 - If user choose one of available product number, then **user balance is increased** and **show current user balance**. System says “*Thank you for using this application.*”

- If user choose unavailable product number, then system says *“it is out of our choice. Thank you for using this application.”*
- If user chooses **Transfer Balance** (menu '3'), then :
 - Show current user balance
 - User must enter **phone number to be transferred** and **amount to be transfer**.
 - If transfer amount is greater than the balance, then transfer process will not be processed. System says *“Your balance is not enough. Thank you for using this application.”*
 - If user's balance is equal or less than transfer amount, then transfer process will be processed. System show **amount transferred** and **current user balance** after transferred process. System says *“Thank you for using this application.”*
- If user chooses **Exit** (menu '4'), then program will be end.

Please run the EXE file to see the sample program.

Print Screen of Initial Program if username and password are correct.

```

                Login First
Ⓢ Username : phone
Ⓢ Password : phone

```

Print Screen of Initial Program if username and password are incorrect.

```

                Login First
Ⓢ Username : a
Ⓢ Password : a

Your username and password are incorrect.
Press enter to continue....

Thank you for using this application.

```

Print Screen of Main Menu

```

                Ⓢ Simple Phone Service Ⓢ
                *****
1. Remaining Balance
2. Reload
3. Transfer Balance
4. Exit

Enter your choice :

```

Print Screen of Remaining Balance (Menu '1')

```

Remaining Balance
*****

Your remaining balance      =  Rp. 250000
Your phone number valid until =  31 December 2019

Thank you for using this application.

```

Print Reload (Menu '2') if user choose the available number

```

Your Remaining Balance = Rp. 250000

Reload
*****

Choose a product to reload
1. Rp 50.000
2. Rp 100.000
3. Rp 150.000
4. Rp 200.000

Enter your choice : 1

Congrats!
Your balance now = Rp. 300000

Thank you for using this application.

```

Print Reload (Menu '2') if user choose unavailable number

```

Your Remaining Balance = Rp. 250000

Reload
*****

Choose a product to reload
1. Rp 50.000
2. Rp 100.000
3. Rp 150.000
4. Rp 200.000

Enter your choice : 5

It is out of our choice.

Thank you for using this application.

```

Print Screen of Transfer Balance (Menu '3') if transfer amount is greater than the balance

```
Your Remaining Balance = Rp. 250000

Transfer Balance
*****

phone number to be transferred [10..14]: 089012345678
balance to be transferred           : 300000

Your balance is not enough.
Thank you for using this application.
```

Print Screen of Transfer Balance (Menu '3') if transfer amount is equal or less than the balance

```
Your Remaining Balance = Rp. 250000

Transfer Balance
*****

phone number to be transferred [10..14]: 089012345678
balance to be transferred           : 200000

Congrats!
You successfully transferred Rp. 200000
Your balance now = Rp. 50000

Thank you for using this application.
```