**Assignment 1**

***Exercise 1*** (4 mark)

DHL is a company which transport good. The company need to calculate free of transporting, the fee is calculated as the following:

* The customer must be pay $50 for each good package.
* The fee must be pay by distance:
  + < 20km: free
  + From 20km to 30km: include $25 for each good package.
  + From 30km to 40km: include $30 for each good package.
  + From 40km to 50km: include $35 for each good package.
  + Greater than 50m: include $40 for each good package.
* Time of transporting: If time of transporting in day (6h-18h): Include 10% of total fee.

Write application to input information of transporting and print report of fee that customer must be pay.

=========== TRANSPORT FEE ==========

Enter number of package: 10

Enter the distance to transport (km) : 30

Enter the time to transport (0h-24h): 22

The customer must pay: $880

***Exercise 2*** (6 mark)

TienPhong Bank is the bank of FPT. With number of customer continuous increase, the bank need to develop an application to supply the services : register bank account and process transactions. The main menu of application as the following:

1. Open a Bank account
2. Perform transactions for an account
3. Exit the application

|  |  |  |
| --- | --- | --- |
| **Command** | **Process** | **Description** |
| 1 | Open an account | Register an account |
| 2 | Perform transactions on an account | Process transaction |
| 3 | Exit the application | Exit |

Choose menu 1, enter name, age, address and starting balance of account. Preview information’s for confirmation.

Choose menu 2, show the following menu:

1. Deposit money in his account
2. Withdraw money from his account
3. Display the number of transactions and the balance
4. Exit from the application

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Welcome to Tien phong bank ATM System:

1. Open a Bank account

2. Perform transactions for an account

3. Exit the application

Choose service: 1

Open an account

Enter your name: nguyen duy hoang

Enter your age: 21

Enter your address: ha noi

Enter your balance: 2000

Welcome new account, your information:

Name: nguyen duy hoang

Age: 21

Address: ha noi

Balance: $2000

Welcome to Tien phong bank ATM System:

1. Open a Bank account

2. Perform transactions for an account

3. Exit the application

Choose service: 2

Please choose the service:

1. Deposit money in his account

2. Withdraw money from his account

3. Display the number of transactions and losing balance

4. Exit from the application

Choose service: 1

Enter amount to deposit: 100

You have deposit: 100 $

Your balance is: 2100 $

Please choose the service:

1. Deposit money in his account

2. Withdraw money from his account

3. Display the number of transactions and losing balance

4. Exit from the application

Choose service: 2

Enter amount to deposit: 300

You have withdrawn: 300 $

Your balance is: 1800 $

Please choose the service:

1. Deposit money in his account

2. Withdraw money from his account

3. Display the number of transactions and losing balance

4. Exit from the application

Choose service: 3

You have perform 2 transaction(s)

Your balance is: 1800 $

Please choose the service:

1. Deposit money in his account

2. Withdraw money from his account

3. Display the number of transactions and losing balance

4. Exit from the application

Choose service: