```
D:\KMUTT\year3\term1\CPE231_DATA\lab3>python Lab3mainfunction.py
```

Product Create Success.

Product Create Success.

Product Create Success.

{'HD01': {'Name': 'Seagate HDD 80 GB', 'Units': 'PCS'}, 'HD02': {'Name': 'IBM HDD 60 GB', 'Units': 'PCS'}, 'INT01': {'Name': 'Intel Pentium IV 3.6 GHz', 'Units': 'PCS'}}

These are 3 products in the database (Press a key to continue).

Customer Create Success.

Customer Create Success.

Customer Code, Name, Address, Credit Limit, Country

Sam, Sam Co., Ltd., 122 Bangkok, 500000, Thailand

CP, CPALL, 123 Bangkok, 100000, Thailand

These are 2 customers in the database (Press a key to continue).

Invoice Create Success.

Invoice Create Success.

Invoice No, Date, Customer Code, Customer Name, Due Date, Total, VAT, Amount Due, Product Code, Product Name, Quantity, Unit Price, Extended Price

INT100/20, 2020-01-03, Sam, Sam Co., Ltd., None, 14000.00, 980.00, 14980.00, HD02, IBM HDD 60 GB, 8, 1000.00, 8000.00

INT101/20, 2020-01-04, CP, CPALL, None, 2000.00, 140.00, 2140.00, HD02, IBM HDD 60 GB, 1, 2000.00, 2000.00

These are 2 invoices in the database (Press a key to continue).

Receipts Create Success.

Receipts Create Success.

Receipts Create Success.

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 100, INT100/20, 2020-01-03, 14980.00, 100

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT101/20, 2020-01-04, 2140.00, 200

RCT1002/20, 2020-02-05, Sam   , Sam Co., Ltd., Credit Card   , Master Card, Citibank   , Partially paid on INT101/20   , 8560, INT100/20, 2020-01-03, 14980.00, 8560

RCT1002/20, 2020-02-05, Sam   , Sam Co., Ltd., Credit Card   , Master Card, Citibank   , Partially paid on INT101/20   , 1440, INT101/20, 2020-01-04, 2140.00, 1440

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 10, INT100/20, 2020-01-03, 14980.00, 10

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 20, INT101/20, 2020-01-04, 2140.00, 20

Results of creating 3 receipts: RCT1001/20, RCT1002/20, and RCT1003/20 (Press a key to continue).

{'RCT1003/20': {'receipt_date': datetime.date(2020, 2, 6), 'customer_code': 'CP   ', 'payment_method': 'Debit Card   ', 'payment_reference': 'Debit Card

      ', 'remark': 'This will later be deleted   '}}

Receipt No 'RCT1005/20' not found. Cannot Read.

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 100, INT100/20, 2020-01-03, 14980.00, 100

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT101/20, 2020-01-04, 2140.00, 200

RCT1002/20, 2020-02-05, Sam   , Sam Co., Ltd., Credit Card   , Master Card, Citibank   , Partially paid on INT101/20   , 8560, INT100/20, 2020-01-03, 14980.00, 8560

RCT1002/20, 2020-02-05, Sam   , Sam Co., Ltd., Credit Card   , Master Card, Citibank   , Partially paid on INT101/20   , 1440, INT101/20, 2020-01-04, 2140.00, 1440

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 10, INT100/20, 2020-01-03, 14980.00, 10

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 20, INT101/20, 2020-01-04, 2140.00, 20

Results of reading 2 receipts: RCT1003/20 (successfully), and RCT1005/20 (unsuccessfully) (Press a key to continue).

Receipt Update Success.

Receipt No 'RCT1004/20' not found. Cannot Update.

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 100, INT100/20, 2020-01-03, 14980.00, 100

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT101/20, 2020-01-04, 2140.00, 200

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 10, INT100/20, 2020-01-03, 14980.00, 10

RCT1003/20, 2020-02-06, CP   , CPALL, Debit Card   , Debit Card   , This will later be deleted   , 20, INT101/20, 2020-01-04, 2140.00, 20

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 8000, INT100/20, 2020-01-03, 14980.00, 8000

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 1400, INT101/20, 2020-01-04, 2140.00, 1400

Results of updating 2 receipts: RCT1002/20 (successfully) and RCT1004/20 (unsuccessfully) (Press a key to continue).

Receipt Delete Success.

Receipt No 'RCT1005/20' not found. Cannot Delete

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 100, INT100/20, 2020-01-03, 14980.00, 100

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT101/20, 2020-01-04, 2140.00, 200

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 8000, INT100/20, 2020-01-03, 14980.00, 8000

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 1400, INT101/20, 2020-01-04, 2140.00, 1400

Results of deleting 2 receipts: RCT1003/20 (successfully) and RCT1005/20 (unsuccessfully) (Press a key to continue).

Invoice No, Invoice Date, Customer Name, Invoice Amount Due, Invoice Amount Received, Unpaid

INT100/20, 2020-01-03, Sam Co., Ltd., 14980.00, 8100, 6880.00

INT101/20, 2020-01-04, CPALL, 2140.00, 1600, 540.00

Number of invoices not paid, Total unpaid, Total Receipt

2, 7420.00, 9700

Report unpaid invoice 1 (Press a key to continue).

นางสาวรพีพรรณ มาสถิตทรัพย์ 61070507218

Receipt Line Item Update Success.

Invoice Code 'INT100/20' not found in Receipt No 'RCT1005/20'. Cannot Update.

Invoice Code 'INT103/20' not found in Receipt No 'RCT1001/20'. Cannot Update.

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT101/20, 2020-01-04, 2140.00, 200

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 8000, INT100/20, 2020-01-03, 14980.00, 8000

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 1400, INT101/20, 2020-01-04, 2140.00, 1400

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT100/20, 2020-01-03, 14980.00, 200

Result of updating 3 receipt line, first successfully, others unsuccessfully (Press a key to continue).

Receipt Line Item Delete Success.

Invoice Code 'INT100/20' not found in Receipt No 'RCT1003/20'. Cannot Delete.

Invoice Code 'INT103/20' not found in Receipt No 'RCT1001/20'. Cannot Delete.

'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 8000, INT100/20, 2020-01-03, 14980.00, 8000

RCT1002/20, 2020-02-06, Sam   , Sam Co., Ltd., Debit Card   , VISA card   , Partially paid on INT100/20 and INT101/20   , 1400, INT101/20, 2020-01-04, 2140.00, 1400

RCT1001/20, 2020-02-04, CP   , CPALL, Cash   , Nothing   , Paid all invoices partially   , 200, INT100/20, 2020-01-03, 14980.00, 200

Result of deleting 3 receipt line, first successfully, others unsuccessfully (Press a key to continue).

Invoice No, Invoice Date, Customer Name, Invoice Amount Due, Invoice Amount Received, Unpaid

INT100/20, 2020-01-03, Sam Co., Ltd., 14980.00, 8200, 6780.00

INT101/20, 2020-01-04, CPALL, 2140.00, 1400, 740.00

Number of invoices not paid, Total unpaid, Total Receipt

2, 7520.00, 9600

Normal Termination.   Goodbye!

แสดงผลการรัน Lab3mainfunction.py

```
D:\KMUTT\year3\term1\CPE231_DATA\lab3>
D:\KMUTT\year3\term1\CPE231_DATA\lab3>python Lab3mainfunction..py
Product Create Success.
Product Create Success.
Product Create Success.
{'HD01': {'Name': 'Seagate HDD 80 GB', 'Units': 'PCS'}, 'HD02': {'Name': 'IBM HDD 60 GB', 'Units': 'PCS'}, 'INT01': {'Name': 'Intel Pentium IV 3.6 GHz', 'Units': 'PCS'}}
These are 3 products in the database (Press a key to continue).
Customer Create Success.
Customer Create Success.

Customer Code, Name, Address, Credit Limit, Country
Sam, Sam Co., Ltd., 122 Bangkok, 500000, Thailand
CP, CPALL, 123 Bangkok, 100000, Thailand
These are 2 customers in the database (Press a key to continue).
Invoice Create Success.
Invoice Create Success.

Invoice No, Date, Customer Code, Customer Name, Due Date, Total, VAT, Amount Due, Product Code, Product Name, Quantity, Unit Price, Extended Price
INT100/20, 2020-01-03, Sam, Sam Co., Ltd., None, 14000.00, 980.00, 14980.00, HD02, IBM HDD 60 GB, 8, 1000.00, 8000.00
INT101/20, 2020-01-04, CP, CPALL, None, 2000.00, 140.00, 2140.00, HD02, IBM HDD 60 GB, 1, 2000.00, 2000.00
These are 2 invoices in the database (Press a key to continue).
Receipts Create Success.
Receipts Create Success.
Receipts Create Success.
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 100, INT100/20, 2020-01-03, 14980.00, 100
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT101/20, 2020-01-04, 2140.00, 200
RCT1002/20, 2020-02-05, Sam       , Sam Co., Ltd., Credit Card        , Master Card, Citibank         , Partially paid on INT101/20          , 8560, INT100/20, 2020-01-03, 14980.00, 8560
RCT1002/20, 2020-02-05, Sam       , Sam Co., Ltd., Credit Card        , Master Card, Citibank         , Partially paid on INT101/20          , 1440, INT101/20, 2020-01-04, 2140.00, 1440
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 10, INT100/20, 2020-01-03, 14980.00, 10
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 20, INT101/20, 2020-01-04, 2140.00, 20
Results of creating 3 receipts: RCT1001/20, RCT1002/20, and RCT1003/20 (Press a key to continue).
{'RCT1003/20': {'receipt_date': datetime.date(2020, 2, 6), 'customer_code': 'CP        ', 'payment_method': 'Debit Card        ', 'payment_reference': 'Debit Card        ', 'remark': 'This will later be deleted                    '}}
Receipt No 'RCT1005/20' not found. Cannot Read.
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 100, INT100/20, 2020-01-03, 14980.00, 100
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT101/20, 2020-01-04, 2140.00, 200
RCT1002/20, 2020-02-05, Sam       , Sam Co., Ltd., Credit Card        , Master Card, Citibank         , Partially paid on INT101/20          , 8560, INT100/20, 2020-01-03, 14980.00, 8560
RCT1002/20, 2020-02-05, Sam       , Sam Co., Ltd., Credit Card        , Master Card, Citibank         , Partially paid on INT101/20          , 1440, INT101/20, 2020-01-04, 2140.00, 1440
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 10, INT100/20, 2020-01-03, 14980.00, 10
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 20, INT101/20, 2020-01-04, 2140.00, 20
Results of reading 2 receipts: RCT1003/20 (successfully), and RCT1005/20 (unsuccessfully) (Press a key to continue).
Receipt Update Success.
Receipt No 'RCT1004/20' not found. Cannot Update.
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 100, INT100/20, 2020-01-03, 14980.00, 100
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT101/20, 2020-01-04, 2140.00, 200
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 10, INT100/20, 2020-01-03, 14980.00, 10
RCT1003/20, 2020-02-06, CP        , CPALL, Debit Card        , Debit Card         , This will later be deleted          , 20, INT101/20, 2020-01-04, 2140.00, 20
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 8000, INT100/20, 2020-01-03, 14980.00, 8000
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 1400, INT101/20, 2020-01-04, 2140.00, 1400
Results of updating 2 receipts: RCT1002/20 (successfully) and RCT1004/20 (unsuccessfully) (Press a key to continue).
Receipt Delete Success.
Receipt No 'RCT1005/20' not found. Cannot Delete
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 100, INT100/20, 2020-01-03, 14980.00, 100
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT101/20, 2020-01-04, 2140.00, 200
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 8000, INT100/20, 2020-01-03, 14980.00, 8000
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 1400, INT101/20, 2020-01-04, 2140.00, 1400
Results of deleting 2 receipts: RCT1003/20 (successfully) and RCT1005/20 (unsuccessfully) (Press a key to continue).

Invoice No, Invoice Date, Customer Name, Invoice Amount Due, Invoice Amount Received, Unpaid
INT100/20, 2020-01-03, Sam Co., Ltd., 14980.00, 8100, 6880.00
INT101/20, 2020-01-04, CPALL, 2140.00, 1600, 540.00

Number of invoices not paid, Total unpaid, Total Receipt
2, 7420.00, 9700
Report unpaid invoice 1 (Press a key to continue).
Receipt Line Item Update Success.
Invoice Code 'INT100/20' not found in Receipt No 'RCT1005/20'. Cannot Update.
Invoice Code 'INT103/20' not found in Receipt No 'RCT1001/20'. Cannot Update.
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT101/20, 2020-01-04, 2140.00, 200
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 8000, INT100/20, 2020-01-03, 14980.00, 8000
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 1400, INT101/20, 2020-01-04, 2140.00, 1400
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT100/20, 2020-01-03, 14980.00, 200
Result of updating 3 receipt line, first successfully, others unsuccessfully (Press a key to continue).
Receipt Line Item Delete Success.
Invoice Code 'INT100/20' not found in Receipt No 'RCT1003/20'. Cannot Delete.
Invoice Code 'INT103/20' not found in Receipt No 'RCT1001/20'. Cannot Delete.
'Receipt No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Received'
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 8000, INT100/20, 2020-01-03, 14980.00, 8000
RCT1002/20, 2020-02-06, Sam       , Sam Co., Ltd., Debit Card        , VISA card          , Partially paid on INT100/20 and INT101/20          , 1400, INT101/20, 2020-01-04, 2140.00, 1400
RCT1001/20, 2020-02-04, CP        , CPALL, Cash              , Nothing                    , Paid all invoices partially          , 200, INT100/20, 2020-01-03, 14980.00, 200
Result of deleting 3 receipt line, first successfully, others unsuccessfully (Press a key to continue).

Invoice No, Invoice Date, Customer Name, Invoice Amount Due, Invoice Amount Received, Unpaid
INT100/20, 2020-01-03, Sam Co., Ltd., 14980.00, 8200, 6780.00
INT101/20, 2020-01-04, CPALL, 2140.00, 1400, 740.00

Number of invoices not paid, Total unpaid, Total Receipt
2, 7520.00, 9600
Normal Termination.   Goodbye!

D:\KMUTT\year3\term1\CPE231_DATA\lab3>
```