

```
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
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 100, INT100/20, 2020-01-03, 14980.00, 100
                                                                           , CPALL, Cash
                                                                                                                             , Nothing
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
                                                                                                                                                                                                                                                                                                        , 10, INT100/20, 2020-01-03, 14980.00, 10
                                                                           , CPALL, Debit Card
                                                                                                                                  , Debit Card
                                                                                                                                                                                                               , This will later be deleted
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
                                                                                                                                                                                                       , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 100, INT100/20, 2020-01-03, 14980.00, 100
                                                                           , CPALL, Cash
                                                                                                                             , Nothing
RCT1001/20, 2020-02-04, CP
                                                                            , CPALL, Cash
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 200, INT101/20, 2020-01-04, 2140.00, 200
                                                                                                                             , Nothing
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
                                                                           , CPALL, Debit Card
RCT1003/20, 2020-02-06, CP
                                                                                                                                  , 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'
                                                                           . CPALL. Cash
                                                                                                                             , Nothing
RCT1001/20, 2020-02-04, CP
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 100, INT100/20, 2020-01-03, 14980.00, 100
RCT1001/20, 2020-02-04, CP
                                                                                                                             , Nothing
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 200, INT101/20, 2020-01-04, 2140.00, 200
                                                                           , CPALL, Cash
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
                                                                                                                                                                                                                , This will later be deleted
                                                                                                                                                                                                                                                                                                        , 20, INT101/20, 2020-01-04, 2140.00, 20
                                                                                                                                  , Debit Card
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
                                                                                                                                                                                                                                 , Partially paid on INT100/20 and INT101/20
RCT1002/20, 2020-02-06, Sam
                                                                             , Sam Co., Ltd., Debit Card
                                                                                                                                                     , VISA card
                                                                                                                                                                                                                                                                                                                                                , 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 Date', 'Invoice Amount Due', 'Invoice
Received'
RCT1001/20, 2020-02-04, CP
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 100, INT100/20, 2020-01-03, 14980.00, 100
                                                                           , CPALL, Cash
                                                                                                                             , Nothing
RCT1001/20, 2020-02-04, CP
                                                                           , CPALL, Cash
                                                                                                                                                                                                        , Paid all invoices partially
                                                                                                                                                                                                                                                                                               , 200, INT101/20, 2020-01-04, 2140.00, 200
                                                                                                                             , Nothing
                                                                                                                                                                                                                                 , Partially paid on INT100/20 and INT101/20
RCT1002/20, 2020-02-06, Sam
                                                                             , Sam Co., Ltd., Debit Card
                                                                                                                                                     , VISA card
                                                                                                                                                                                                                                                                                                                                               , 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!

แสดงผลการส่น Lab3 main function.px

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

Uts in the database (Press a key to continue).
                                   er Code, Name, Address, Credit Limit, Country
am Co., Ltd., 122 Bangkok, 500000, Thailand
All, 123 Bangkok, 100000, Thailand
are 2 customers in the database (Press a key to continue).
                           ved
181/20, 2020-02-04, CP , CPALL, Cash , Nothing
00, 100
01/20, 2020-02-04, CP , CPALL, Cash , Nothing
0, 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , Paid all invoices partially , 100, INT100/20, 2020-01-03, 1
, Paid all invoices partially , 200, INT101/20, 2020-01-04, 2
                    90, 200
902/20, 2020-02-05, Sam , Sam Co., Ltd., Credit Card , Master Card, Citibank , Partially paid on INI101/20 , 8560, INI100/20, 2020-05, 14900.00, 8560
902/20, 2020-0-05, Sam , Sam Co., Ltd., Credit Card , Master Card, Citibank , Partially paid on INI101/20 , 1440, INI101/20, 2020-06/2, 740, 1440, INI101/20, 2020-06/2, 1440, INI101/20, 2020-06/2, 1440, INI101/20, 2020-06/2, 2020-06-06, CP , CPALL, Debit Card , Debit Card , This will later be deleted , 10, INI100/20, 2020-01-03, 1400, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 1000, 100
                             03/26, 708-002-06, IP , Chilly potent aim (1909) 28, RT1809/28, and RCT1003/28 (Press a key to continue).

1806/20°: (receipt_date: datetime_date(2028, 2, 6), 'customer_code': 'CP ', 'payment_method': 'Debit Card ', 'payment_reference': 'Debit Ca
                | Comparison | Com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , 100, INT100/20, 2020-01-03, 1
                      ipt Update Success.

ipt No (RCIN004/20' not found. Cannot Update.

eipt No ("Receipt Date", 'Invoice Date", 'Invoice Amount Due", '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , Paid all invoices partially , 180, INT100/20, 2020-01-03, 1
, Paid all invoices partially , 200, INT101/20, 2020 01 04 - 3
                  , Partially paid on INT100/20 and INT101/20 , 8000, INT100/20, 2020
, Partially paid on INT100/20 and INT101/20 , 1400, INT101/20, 2020
                                                              lete Success.

"KCI1005/20' not found. Cannot Delete
"KCI1005/20' not found. Cannot Delete", 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount
"Neceipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount
"Neceipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Due', 'Invoice Due', 'Invoice Amount Due', 'Invoice Due', 'Invoice
        Recived Partially paid on INT100/20 and INT101/20 and INT1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          , Paid all invoices partially , 100, INT100/20, 2020-01-03, 1
, Paid all invoices partially , 200, INT101/20, 2020-01-04, 2
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, CPAIL, 7140-00, 1660, 540-00
            ber of invoices not paid, Total unpaid, Total Receipt
7420.08, 9700
ort unpaid invoice 1 (Press a key to continue).
eipt Line Tiese Update Success.
oice Code 'INT100/20' not found in Receipt No 'RCT1005/20'. Cannot Update.
oice Code 'INT109/20' not found in Receipt No 'RCT1005/20'. Cannot Update.
oice Code 'INT109/20' not found in Receipt No 'RCT1001/20'. Cannot Update.
ocipt No', Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice Amount Due',
                                       200

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

ine Item Delete Success.

ode 'INT180/20' not found in Receipt No 'RCT1003/20'. Cannot Delete.

ode 'INT180/20' not found in Receipt No 'RCT1003/20'. Cannot Delete.

No', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Receipt Date', 'Customer Code', 'Customer Name', 'Payment Method', 'Payment Reference', 'Remark', 'Total Receipt', 'Invoice No', 'Invoice Date', 'Invoice Amount Due', 'Invoice 
                                     d'
'7/89, 2020-02-06, Sam , Sam Co., Ltd., Debit Card , VISA card
14980.00, 8000
'703, 2020-02-06, Sam , Sam Co., Ltd., Debit Card , VISA card
2146.00, 1400
'703, 2020-02-04, CP , CPALL, Cash , Nothing , 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , Partially paid on INT100/20 and INT101/20 , 8000, INT100/20, 2020 , Partially paid on INT100/20 and INT101/20 , 1400, INT101/20, 2020
                                                    deleting 3 receipt line, first successfully, others unsuccessfully (Press a key to continue).
                  ice No, Invoice Date, Customer Name, Invoice Amount Due, Invoice Amount Received, Unpaid
60/20, 2020-81-83, Sam Co., Ltd., 14980.00, 2260, 6780.00
91/20, 2020-81-04, CFALL, 2160.06, 1480, 740.00
        mber of invoices not paid, Total unpaid, Total Receipt
7520.00, 9600
rmal Termination. Goodbye!
                  MUTT\year3\term1\CPE231_DATA\lab3>
```