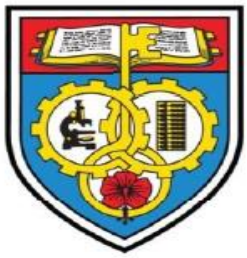


TUNKU ABDUL RAHMAN
UNIVERSITY COLLEGE

Faculty of Computing and Information Technology
AACS1074 Programming Concepts & Design I
Assignment 2022/2023

Assignment Title : UMT POS SYSTEM

Programme : AACS1074 Programming Concept & Design I

Tutorial Group : DFI Y1S1 Group 3

Tutor : Hooi Leng Kheoh

Submission Date :

Student Name	Student ID
Tan Chin Yong	22PMD06439
Tang Lit Xuan	22PMD06426

(To be completed by Practical tutor)

Assignment Evaluation Form

Assessment Criteria		Marks Awarded
CLO	**Criteria**	
2	**Flowchart (10 marks)**	
2	**Program Logic Structure (10 marks)**	
2	**Selection Control Structure (10 marks)**	
2	**Looping Control Structure (10 marks)**	
2	**Screen Design (10 marks)**	
3	**Variables and Constants (10 marks)**	
3	**Input Capturing (10 marks)**	
3	**Processing Data (10 marks)**	
3	**Program Testing and Output (10 marks)**	
3	**Assignment Documentation (10 marks)**	
	Total	

DECLARATION OF ORIGINALITY

We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is our own work. We understand that we will be penalized if we have not complied with TAR UC's Plagiarism policy.

No	Student Photo	Student Name	Student ID	Signature
1		**Tan Chin Yong**	**22PMD06439**	
2		**Tang Lit Xuan**	**22PMD06426**	
3	photo	**xxxxxxxxxxxxx**	**xxxxxxxxxxxxx**	**xxxxxx**

Table of Contents

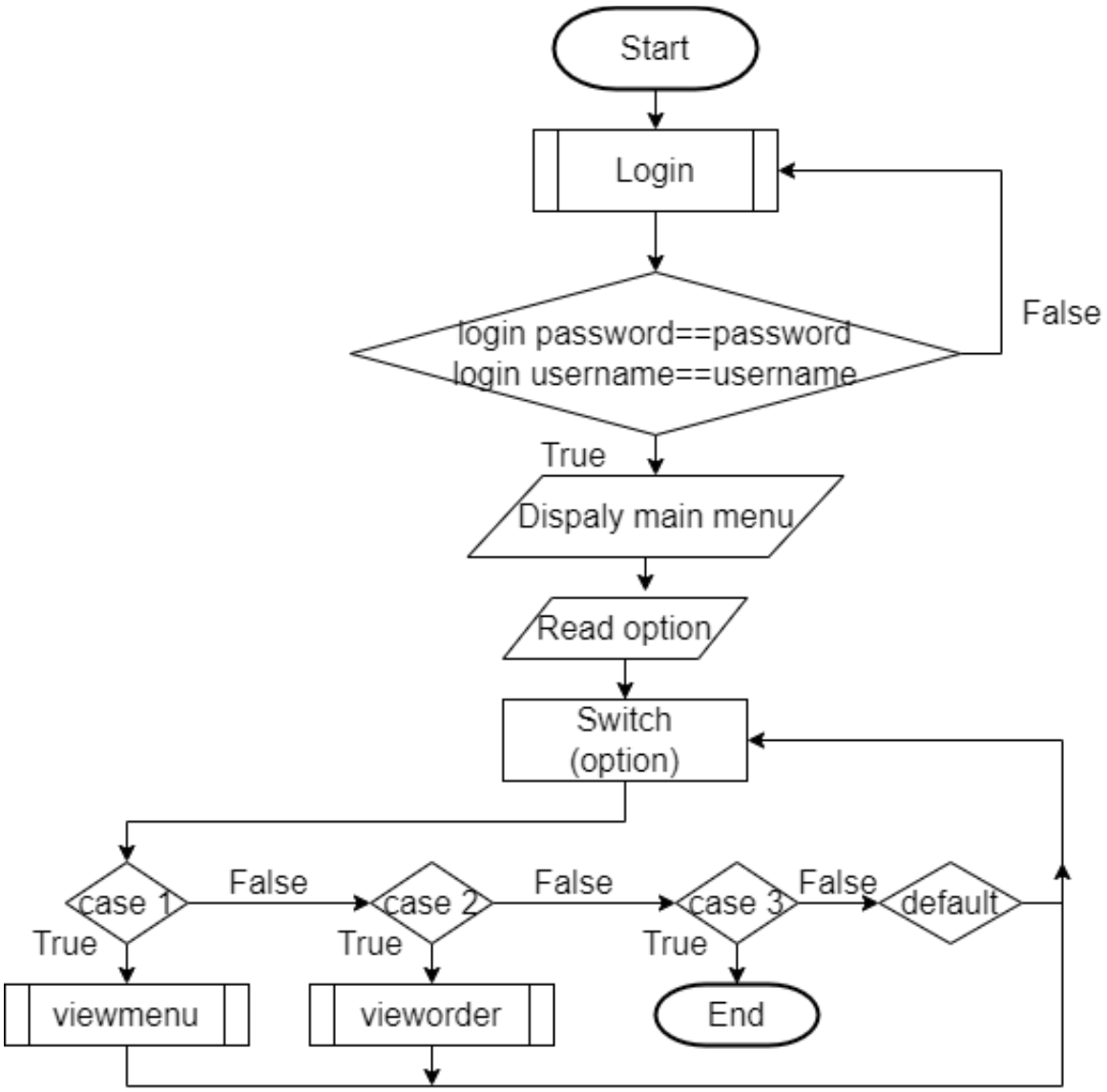
1.0 Introduction

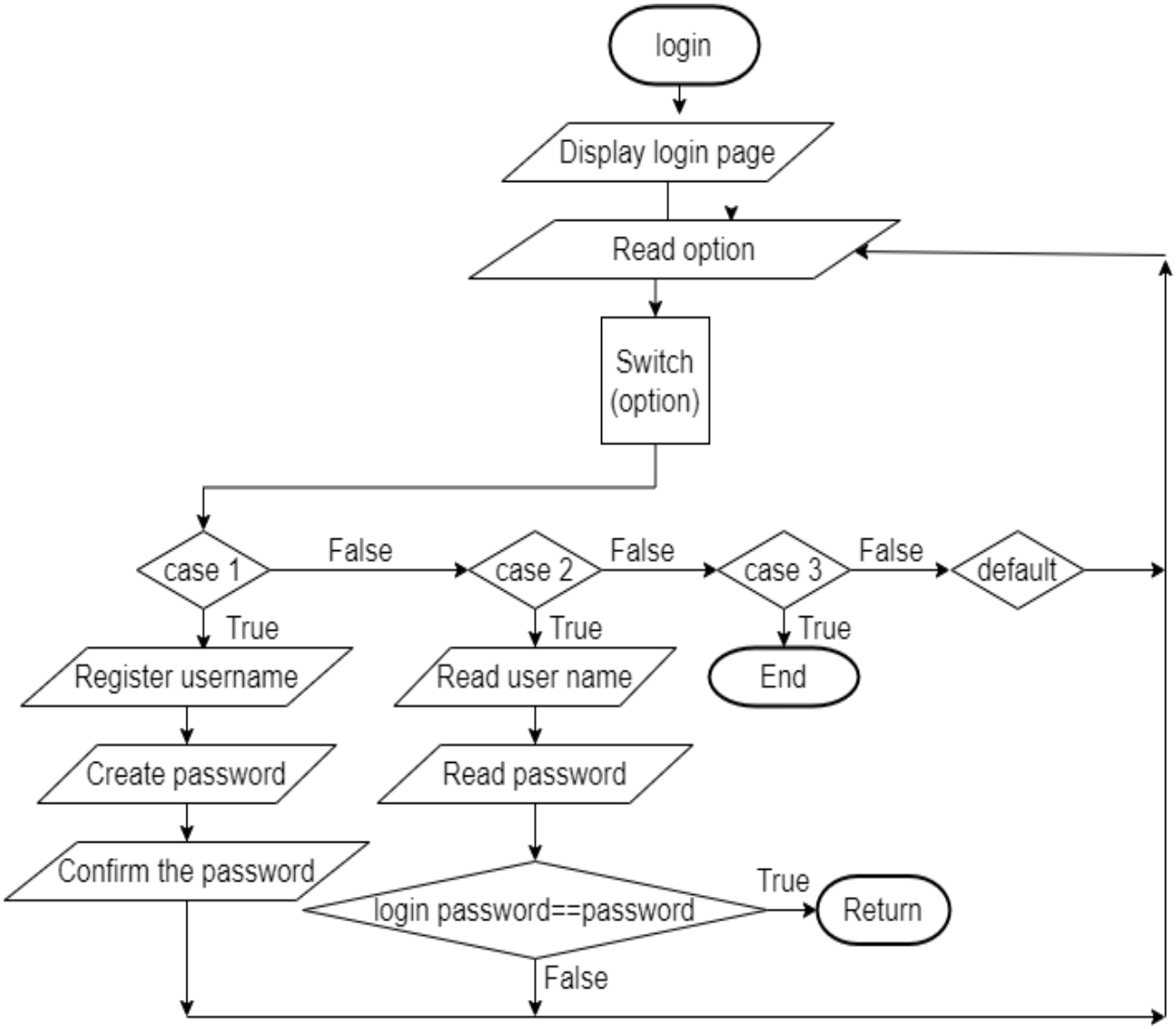
Our system is a book sales system that also has a very intuitive interface and various book menus that make it simple for users to understand how to operate. It is easy to understand for the elderly and children alike. The main function of the system is to help users calculate the total price of the books they have selected. The system allows users to easily find the books they want without having to walk around to various bookshelves to find them, saving effort and time, and also helping people with walking difficulties to buy and view books more easily.

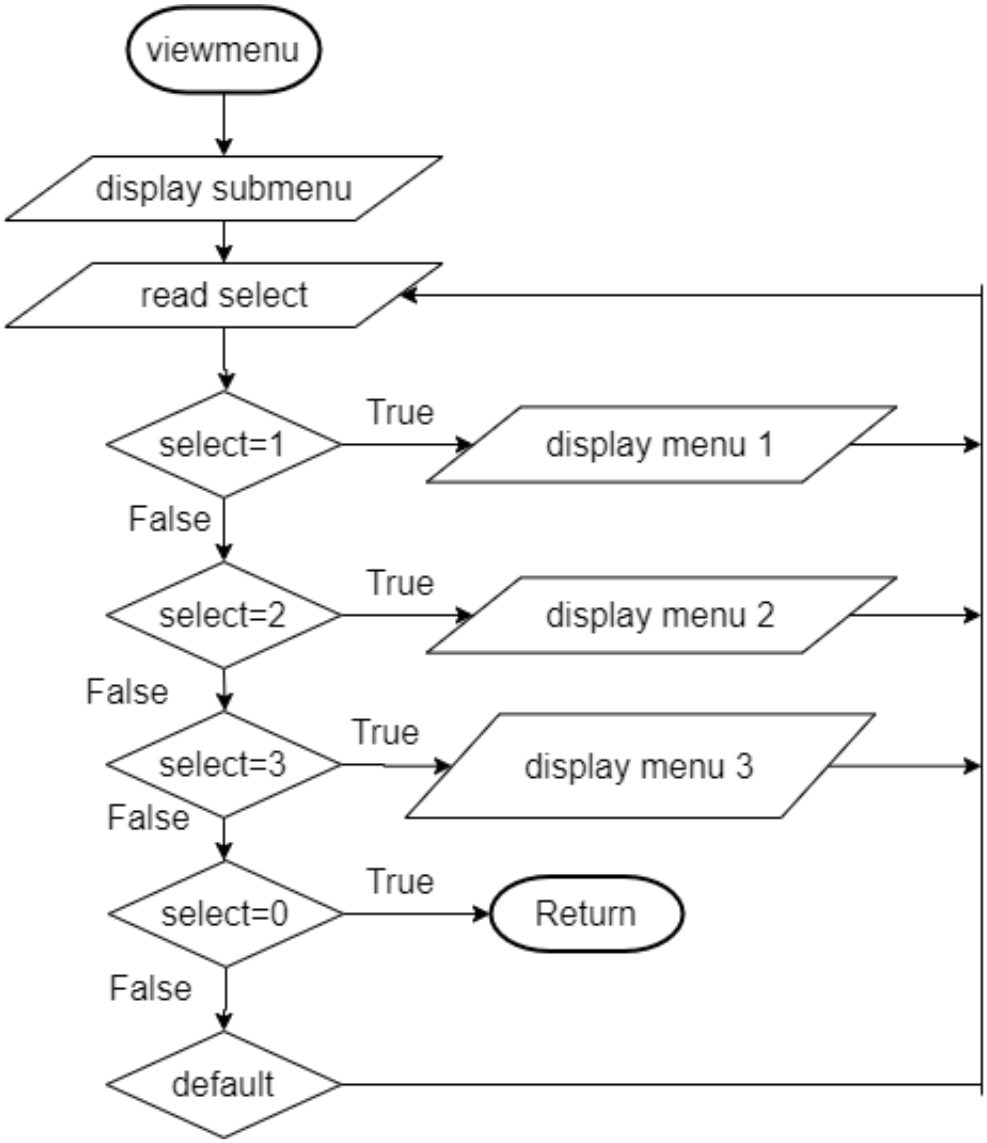
The system allows users to register their account to buy or view books and prices. This function allows us to collect information about the user such as the type of books purchased and can be used as a way to sell the books that the user likes to increase revenue. The system also has a user-friendly feature called "Shopping Cart" which allows users to add temporarily selected books to the shopping cart, delete or change the quantity purchased, and check out multiple items at once. This increases the efficiency of purchases.

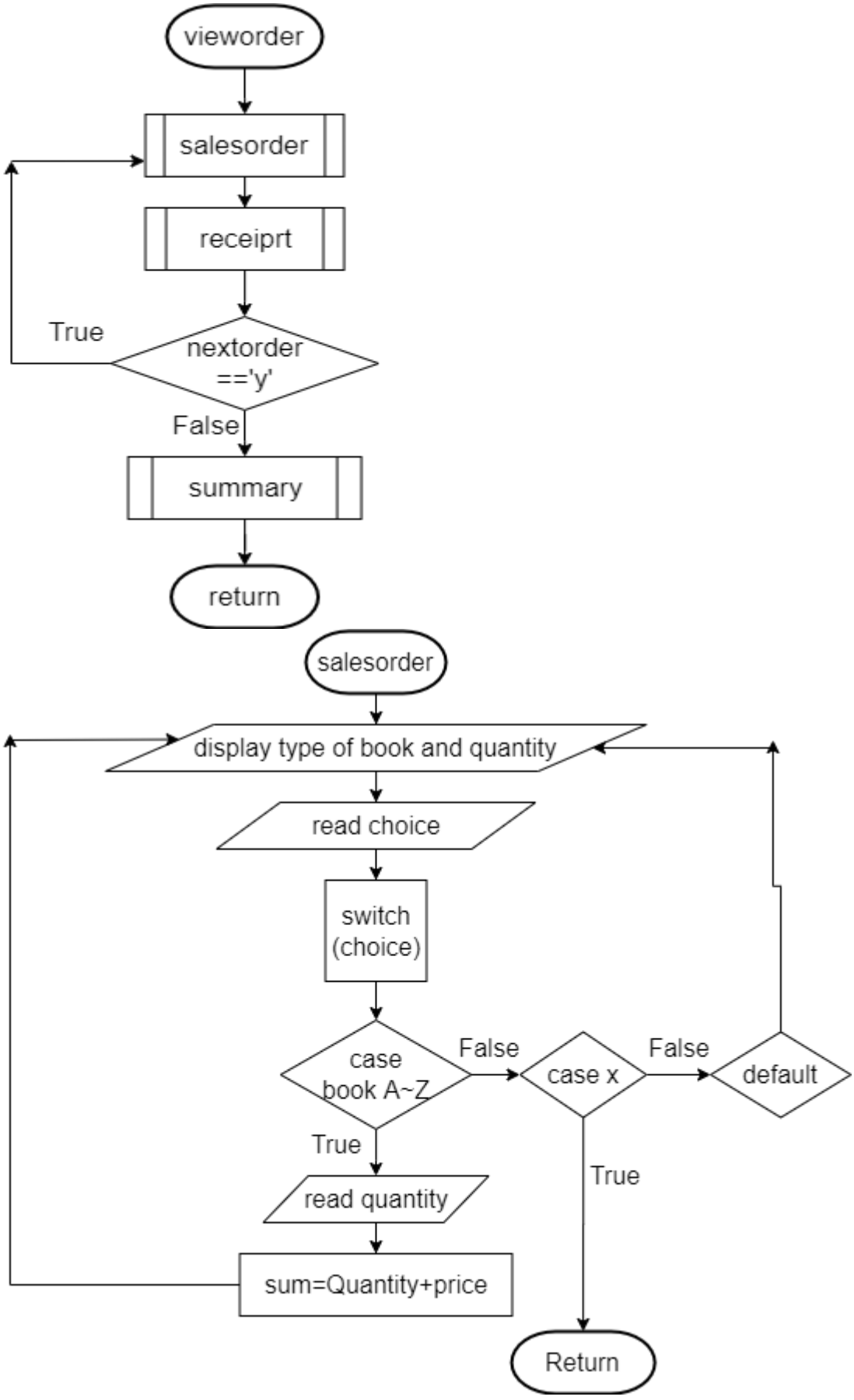
The system is designed to help adults, the elderly and children to view and purchase books easily. The system can list the purchases, the book menu and the total amount paid and more in an intuitive and clear format. The system can be used in libraries, bookshops, etc. It can be used to collect user information to improve user experience and revenue. The system saves everyone a lot of time and allows users to purchase books by simply clicking on the screen.

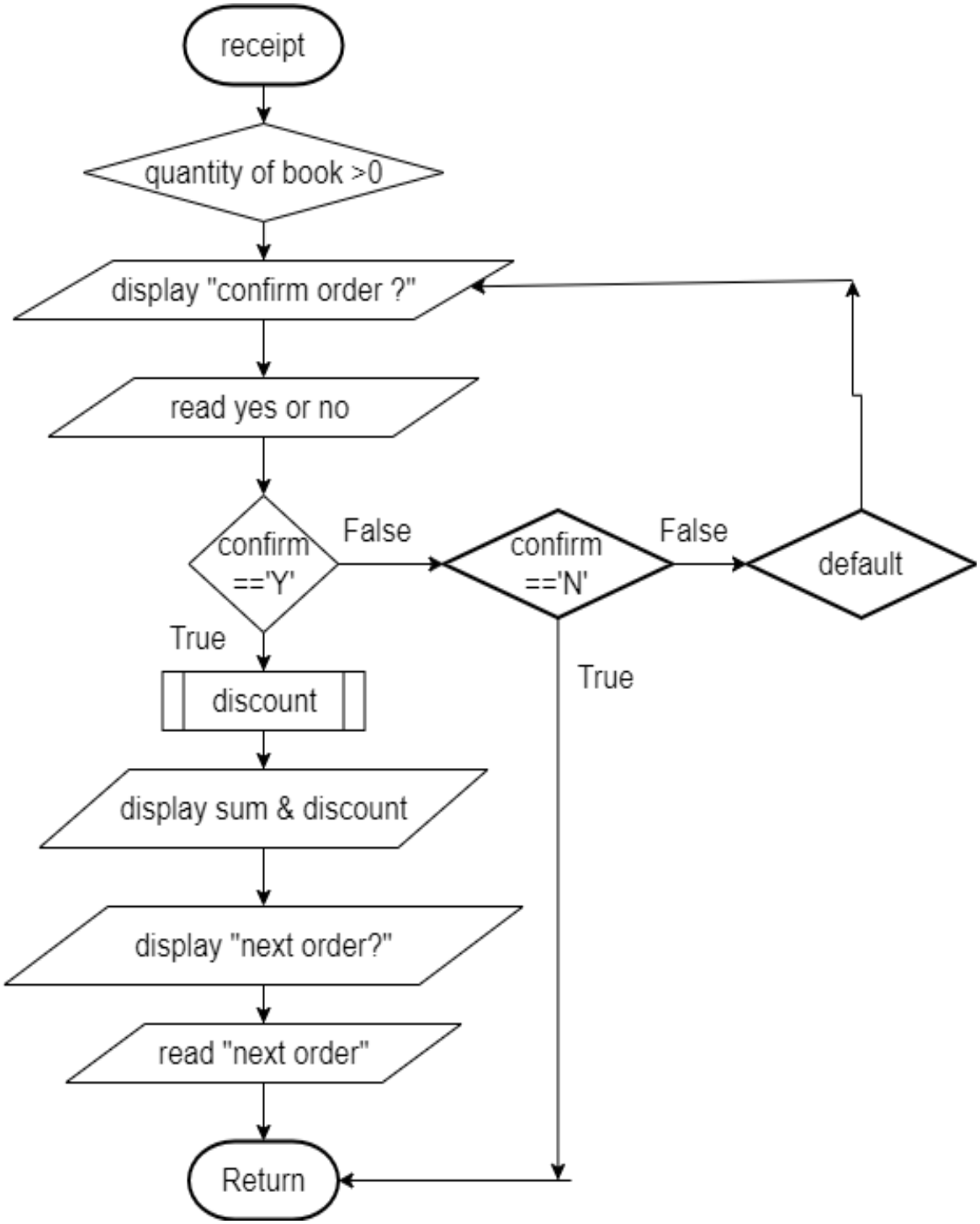
2.0 Flowchart Design

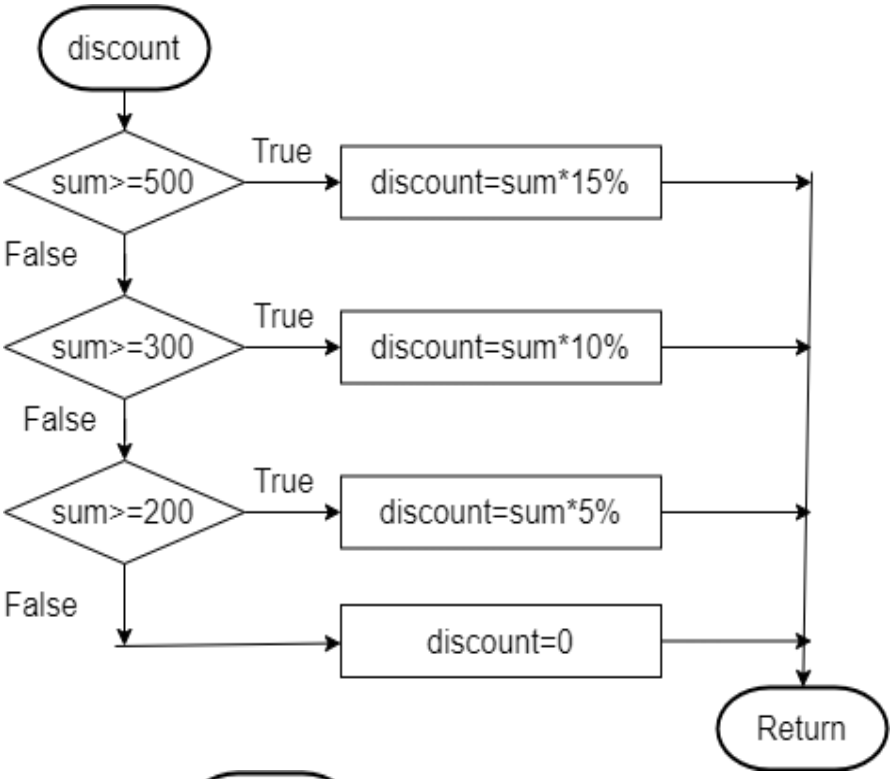


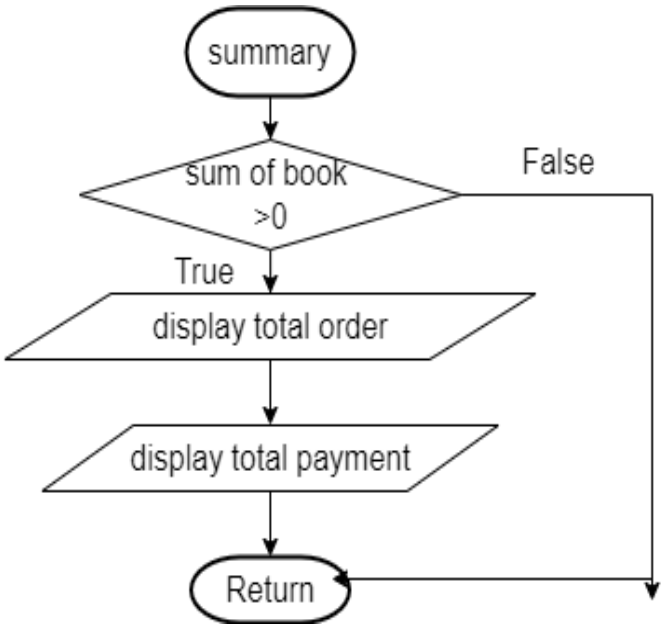

login
Display login page
Read option
Switch (option)
case 1
False
case 2
False
case 3
False
default
True
True
True
Register username
Read user name
End
Create password
Read password
Confirm the password
login password==password
True
Return
False


viewmenu
display submenu
read select
select=1
True
display menu 1
False
select=2
True
display menu 2
False
select=3
True
display menu 3
False
select=0
True
Return
False
default


vieworder
salesorder
receiprt
True
nextorder
=='y'
False
summary
return
salesorder
display type of book and quantity
read choice
switch
(choice)
case
book A~Z
False
case x
False
default
True
True
read quantity
sum=Quantity+price
Return


receipt
quantity of book >0
display "confirm order ?"
read yes or no
confirm ='Y'
False
confirm ='N'
False
default
True
True
discount
display sum & discount
display "next order?"
read "next order"
Return


discount
sum>=500
True
discount=sum*15%
False
sum>=300
True
discount=sum*10%
False
sum>=200
True
discount=sum*5%
False
discount=0
Return


summary
sum of book >0
False
True
display total order
display total payment
Return

3.0 Constants and Variables

```
#define DISCRATE1 15
#define DISCRATE2 10
#define DISCRATE3 5
const float PRICE_A = 69.10, PRICE_B = 70.00, PRICE_C = 55.50, PRICE_D = 58.00,
 PRICE_E = 65.00, PRICE_F = 89.00, PRICE_G = 73.50, PRICE_H = 80.00, PRICE_I = 50.00;
float discount, subtotal,alldiscount,totalsum;
float totalPria, totalPrib, totalPric, totalPrid, totalPrie, totalPrif, totalPrig, totalPrih, totalPrii;
int quantityBa, quantityBb, quantityBc, quantityBd, quantityBe, quantityBf, quantityBg, quantityBh,
quantityBi;
int no = 1;
char typeOfBook， nextorder;
float sumba, sumbb, sumbc, sumbd, sumbe, sumbf, sumbg, sumbh, sumbi;
int sumqa, sumqb, sumqc, sumqd, sumqe, sumqf, sumqg, sumqh, sumqi;
int sumno;
char uname[50] = "a", cuname[50];
int pw, cpw， signup = 0;
 int u, l, t;
int op;
int close = 0;
int select;
char confirm;
float total = subtotal - discount;
int sumquantity = sumqa + sumqb + sumqc + sumqd + sumqe + sumqf + sumqg + sumqh + sumqi;
float sumprice = sumba + sumbb + sumbc + sumbd + sumbe + sumbf + sumbg + sumbh + sumbi;
int exit = 0;
```

3.1 Constants

Identifier	Data type	Value	Purpose
PRICE_A	Float	69.10	Define price of book A
PRICE_B	Float	70.00	Define price of book B
PRICE_C	Float	55.00	Define price of book C
PRICE_D	Float	58.00	Define price of book D
PRICE_E	Float	65.00	Define price of book E
PRICE_F	Float	89.00	Define price of book F
PRICE_G	Float	73.50	Define price of book G
PRICE_H	Float	80.00	Define price of book H
PRICE_I	Float	50.00	Define price of book I
DISCRATE1	int	15	Discount 15% when the total payment more than RM500
DISCRATE2	int	10	Discount 10% when the total payment more than RM300
DISCRATE3	int	5	Discount 5% when the total payment more than RM200

3.2 Variables

< Table showing the variable identifiers, data types, and description/purpose information. >

Identifier	Data type	Purpose
discount	float	Store the value of the discount
totalPria, totalPrib, totalPric, totalPrid, totalPrie, totalPrif, totalPrig, totalPrih, totalPrii	float	Store the value of each type of book that has been purchased
quantityBa,quantityBb,quantityBc, quantityBd,quantityBe,quantityBf, quantityBg, quantityBh,quantityBi	integer	Store the quantities of each type of book that has been purchased
subtotal	Float	Store the total price of an order list （not include discount）
alldiscount	Float	Store the total discount of all order list
total	Float	Store the total price of an order list （already discount）
totalsum	Float	Store the total price of all order list （already discount）
no	Integer	Store the number of order list
typeOfBook	Character	Store the type of book that users choose
nextorde	Character	Store the user's answer whether to proceed with the order or not
sumba, sumbb, sumbc, sumbd, sumbe, sumbf, sumbg,sumbh,sumbi	Float	Store the total price of each type of book on an order
sumqa, sumqb, sumqc, sumqd, sumqe, sumqf, sumqg, sumqh, sumqi	Integer	Store the quantity of each type of book on an order
sumno	Integer	Store the quantity of order list
uname	String	Use to sign up a username

Identifier	Data type	Purpose
cuname	String	Use to enter username by user and log in
pw	Integer	Store the password
cpw	integer	Use to confirm the password again
signup	integer	Initial value is 0, if password and username correct will be 1 and then successful log in
u, l, t	integer	Use to execute for loops
op, select	Integer	Store the option that user choose
close	integer	To close/exit the menu/do-while loops when close=1
confirm	character	Used to confirm if the user is sure about this order
sumquantity	Integer	Store the total quantity of all order list （not include discount）
sumprice	Float	Store the total price of all order list （not include discount）
exit	Integer	Use to exit the log in page when value is 1

4.0 Program Testing & Outputs

4.1 Run 1 Scenario

Description: Have 2 sales order for that day. Summary Report is displayed after last sale order.

Test Data + Expected Outputs Table

	Inputs		Expected Results/Outputs			
Order	**Book ordered**	**Qty**		**Book charges**	**Discount (RM)**	**Total charges (RM)**
1	**A** **B**	**4** **7**		**4*69.00 = 276.00** **7*70.00 =490.00**	**114.90**	**651.10**
2	**F** **G** **I**	**6** **6** **6**		**6*89.00 = 534.00** **6*73.00 = 441.00** **6*50.00 = 300.00**	**191.25**	**1083.75**
			Total	**Sales Order Summary Report** **A 4 276.00** **B 7 490.00** **F 6 534.00** **G 6 441.00** **I 6 300.00** **2041.00**	**306.15**	**1734.85**

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 1                                    |
                    |------------------------------------------------------|
                    |Book A x    4    Book D x    0    Book G x    0      |
                    |Book B x    7    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    0    Book I x    0      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                      ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book A x   4 @ RM 69.00          =      RM    276.00
                     Book B x   7 @ RM 70.00          =      RM    490.00
                    ======================================================
                     Subtotal                         =      RM    766.00
                     Discount                         =      RM    114.90
                    ======================================================
                     Total to pay                     =      RM    651.10
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 2                                    |
                    |------------------------------------------------------|
                    |Book A x    0    Book D x    0    Book G x    6      |
                    |Book B x    0    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    6    Book I x    6      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                      ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book F x   6 @ RM 89.00          =      RM    534.00
                     Book G x   6 @ RM 73.50          =      RM    441.00
                     Book I x   6 @ RM 50.00          =      RM    300.00
                    ======================================================
                     Subtotal                         =      RM   1275.00
                     Discount                         =      RM    191.25
                    ======================================================
                     Total to pay                     =      RM   1083.75
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong

                                DAILY SALES ORDER SUMMARY REPORT
                                --------------------------------

                    Total Number of Sales Order = 2

                    ============================================================
                     Book          Quantity Sold Sales                    Amount
                    ============================================================
                     A                        4                          276.00
                     B                        7                          490.00
                     F                        6                          534.00
                     G                        6                          441.00
                     I                        6                          300.00
                    ============================================================
                     TOTAL                   29                         2041.00
                     TOTAL DISCOUNT                                      306.15
                    ============================================================
                     TOTAL CHARGES                                      1734.85
                    ============================================================


                                THANK YOU Tan Chin Yong, HAVE A NICE DAY!!

Press any key to continue . . . _
```

4.2 Run 2 Scenario

Description: Have 2 sales order for that day. Summary Report is displayed after last sale order.

Test Data + Expected Outputs Table

	Inputs		Expected Results/Outputs			
Order	**Book ordered**	**Qty**		**Book charges**	**Discount (RM)**	**Total charges (RM)**
1	**A** **F** **I**	**2** **2** **1**		**2*69.00 = 138.00** **2*89.00 =178.00** **1*50.00 = 50.00**	**36.60**	**329.40**
2	**B** **D**	**1** **1**		**1*70.00 = 70.00** **6*58.00 = 58.00**	**0.00**	**128.00**
			Total	**Sales Order Summary Report** **A 2 138.00** **B 1 70.00** **D 1 58.00** **F 2 178.00** **I 1 50.00** **494.00**	**36.60**	**457.40**

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 1                                    |
                    |----------------------------------------------------|
                    |Book A x    2    Book D x    0    Book G x    0      |
                    |Book B x    0    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    2    Book I x    1      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

               Confirm the order ? (Y=yes N=no) : y

                                   ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book A x   2 @ RM 69.00          =      RM    138.00
                     Book F x   2 @ RM 89.00          =      RM    178.00
                     Book I x   1 @ RM 50.00          =      RM     50.00
                    ======================================================
                     Subtotal                         =      RM    366.00
                     Discount                         =      RM     36.60
                    ======================================================
                     Total to pay                     =      RM    329.40
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 2                                    |
                    |----------------------------------------------------|
                    |Book A x    0    Book D x    1    Book G x    0      |
                    |Book B x    1    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    0    Book I x    0      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                    ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book B x   1 @ RM 70.00          =      RM     70.00
                     Book D x   1 @ RM 58.00          =      RM     58.00
                    ======================================================
                     Subtotal                        =      RM    128.00
                     Discount                        =      RM      0.00
                    ======================================================
                     Total to pay                    =      RM    128.00
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) :
```

```
ID :Tan Chin Yong

                              DAILY SALES ORDER SUMMARY REPORT
                              --------------------------------

                Total Number of Sales Order = 2

                ============================================================
                 Book          Quantity Sold Sales                    Amount
                ============================================================
                 A                        2                          138.00
                 B                        1                           70.00
                 D                        1                           58.00
                 F                        2                          178.00
                 I                        1                           50.00
                ============================================================
                 TOTAL                    7                          494.00
                 TOTAL DISCOUNT                                       36.60
                ============================================================
                 TOTAL CHARGES                                      457.40
                ============================================================


                                THANK YOU Tan Chin Yong, HAVE A NICE DAY!!

Press any key to continue . . .
```

4.3 Run 3 Scenario

Description: Have 4 sales order for that day. Summary Report is displayed after last sale order.

Test Data + Expected Outputs Table

	Inputs		Expected Results/Outputs			
Order	**Book ordered**	**Qty**		**Book charges**	**Discount (RM)**	**Total charges (RM)**
1	**A** **B** **G**	**1** **2** **3**		**1*69.00 = 69.00** **2*70.00 = 140.00** **3*73.50 = 220.50**	**42.95**	**386.55**
2	**D** **I**	**1** **1**		**1*58.00 = 58.00** **1*50.00 = 50.00**	**0**	**108.00**
3	**F** **C** **H**	**7** **1** **1**		**7*89.00 = 623.00** **1*55.50 = 55.50** **1*80.00 = 80.00**	**113.78**	**644.72**
4	**H** **E**	**2** **1**		**2*80.00 = 160.00** **1*65.00 = 65.00**	**11.25**	**213.75**
			Total	**Sales Order Summary Report** **A 1 69.00** **B 2 140.00** **C 1 55.50** **D 1 58.00** **E 1 65.00** **F 7 623.00** **G 3 220.50** **1521.00**	**167.98**	**1353.02**

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 1                                    |
                    |----------------------------------------------------|
                    |Book A x    1    Book D x    0    Book G x    3      |
                    |Book B x    2    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    0    Book I x    0      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                    ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book A x   1 @ RM 69.00          =      RM     69.00
                     Book B x   2 @ RM 70.00          =      RM    140.00
                     Book G x   3 @ RM 73.50          =      RM    220.50
                    ======================================================
                     Subtotal                        =      RM    429.50
                     Discount                        =      RM     42.95
                    ======================================================
                     Total to pay                    =      RM    386.55
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong
                    ------------------------------------------------------
                    |Sales Order No : 2                                    |
                    |----------------------------------------------------|
                    |Book A x    0    Book D x    1    Book G x    0      |
                    |Book B x    0    Book E x    0    Book H x    0      |
                    |Book C x    0    Book F x    0    Book I x    1      |
                    ------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                    ORDER LIST
                    ------------------------------------------------------
                    ======================================================
                     Book D x   1 @ RM 58.00          =      RM     58.00
                     Book I x   1 @ RM 50.00          =      RM     50.00
                    ======================================================
                     Subtotal                        =      RM    108.00
                     Discount                        =      RM      0.00
                    ======================================================
                     Total to pay                    =      RM    108.00
                    ======================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong
                    ---------------------------------------------------------
                    |Sales Order No : 3                                      |
                    |--------------------------------------------------------|
                    |Book A x    0    Book D x    0    Book G x    0          |
                    |Book B x    0    Book E x    0    Book H x    1          |
                    |Book C x    1    Book F x    7    Book I x    0          |
                    ---------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                    ORDER LIST
                    ---------------------------------------------------------
                    =========================================================
                     Book C x   1 @ RM 55.50          =      RM      55.50
                     Book F x   7 @ RM 89.00          =      RM     623.00
                     Book H x   1 @ RM 80.00          =      RM      80.00
                    =========================================================
                     Subtotal                        =      RM     758.50
                     Discount                        =      RM     113.78
                    =========================================================
                     Total to pay                    =      RM     644.72
                    =========================================================

Do you still want to continue ordering?(Y=yes N=no) : _
```

```
ID :Tan Chin Yong
                    ---------------------------------------------------------
                    |Sales Order No : 4                                      |
                    |--------------------------------------------------------|
                    |Book A x    0    Book D x    0    Book G x    0          |
                    |Book B x    0    Book E x    1    Book H x    2          |
                    |Book C x    0    Book F x    0    Book I x    0          |
                    ---------------------------------------------------------
Please Enter The Book Type (X to Exit): x

                Confirm the order ? (Y=yes N=no) : y

                                    ORDER LIST
                    ---------------------------------------------------------
                    =========================================================
                     Book E x   1 @ RM 65.00          =      RM      65.00
                     Book H x   2 @ RM 80.00          =      RM     160.00
                    =========================================================
                     Subtotal                        =      RM     225.00
                     Discount                        =      RM      11.25
                    =========================================================
                     Total to pay                    =      RM     213.75
                    =========================================================

Do you still want to continue ordering?(Y=yes N=no) :
```

```
                        DAILY SALES ORDER SUMMARY REPORT
                        --------------------------------

                Total Number of Sales Order = 4

                ============================================================
                 Book          Quantity Sold Sales                    Amount
                ============================================================
                 A                         1                          69.00
                 B                         2                         140.00
                 C                         1                          55.50
                 D                         1                          58.00
                 E                         1                          65.00
                 F                         7                         623.00
                 G                         3                         220.50
                 H                         3                         240.00
                 I                         1                          50.00
                ============================================================
                 TOTAL                    20                        1521.00
                 TOTAL DISCOUNT                                      167.98
                ============================================================
                 TOTAL CHARGES                                      1353.02
                ============================================================


                        THANK YOU Tan Chin Yong, HAVE A NICE DAY!!

Press any key to continue . . .
```

Appendix – Program Listing

```
1.  #include<stdio.h>
2.  #include<stdlib.h>
3.  #include<conio.h>
4.  #include<windows.h>
5.  #include<string.h>
6.  #pragma warning(disable:4996)
7.
8.  //Function Declaration
9.  void login();
10. void viewmenu();
11. void vieworder();
12. void salesorder();
13. float disc(float x);
14. void receipt();
15. void summary();
16.
17. //Declaration of variable and constant
18. #define DISCRATE1 15
19. #define DISCRATE2 10
20. #define DISCRATE3 5
21. const float PRICE_A = 69.00, PRICE_B = 70.00, PRICE_C = 55.50, PRICE_D = 58.00, PRICE_E =
    65.00, PRICE_F = 89.00, PRICE_G = 73.50, PRICE_H = 80.00, PRICE_I = 50.00;
22. float discount, subtotal, alldiscount, totalsum, total;
23. float totalPria, totalPrib, totalPric, totalPrid, totalPrie, totalPrif, totalPrig,
    totalPrih, totalPrii;
24. int quantityBa, quantityBb, quantityBc, quantityBd, quantityBe, quantityBf, quantityBg,
    quantityBh, quantityBi;
25. int no = 1;     //Initialize no to 1, because the order no starts at 1
26. char typeOfBook;
27. char nextorder;
28. float sumba, sumbb, sumbc, sumbd, sumbe, sumbf, sumbg, sumbh, sumbi;
29. int sumqa, sumqb, sumqc, sumqd, sumqe, sumqf, sumqg, sumqh, sumqi;
30. int sumno;
31. char uname[50] = "a", cuname[50];
32. int pw, cpw, signup = 0;
33.
34. int main() {
35.   //define the window size and color
36.   system("mode con cols=96 lines=43");
37.   system("color f0");
38.
39.   //login page
40.   login();
41.
42.   //if login successful signup will be 1 and uname,cname==0
43.   if (signup == 1 && strcmp(uname, cuname) == 0) {
44.             int u, l, t;
45.             t = 0;
46.             //display loading image
47.             for (u = 0; u <= 50; u++) {
48.                       system("cls");
49.                       l = 1;
50.                       printf("\n\n\n\n");
51.                       printf("\t                  U _____ u  _        ____    U  ___ u  __
    __  U _____ u \n"
52.                                 "\t      __         __%c| ___%c|/ |%c|    U /%c___
    | %c/ %c_ %c/U|' %c/ '|u%c| ___%c|/ \n"
53.                                 "\t      %c%c%c      /%c/ |  _| %cU | | u  %c| | u     | | |
    |%c| |%c/| |/ |  _|%c   \n"
54.                                 "\t      /%c %c /%c / /%c | |___  %c| |/__  | |/__.-,_| |_|
    | | |  | |  | |___   \n"
55.                                 "\t     U  %c V  V /  U|_____|  |_____|  %c____|%c_)-%c___/
    |_|  |_|  |_____|  \n"
56.                                 "\t     .-,_%c /%c /_,-.<<   >>  //  %c%c
    _// %c%c      %c%c   <<,-,,-.   <<   >>  \n"
```

```
57.                                 "\t      %c_)-'  '-(_/(__) (__)(_%c)(%c_)(__)(__)    (__)
    (./  %c.) (__) (__) \n"
58.                                 , 92, 34, 34, 34, 92, 34, 92, 92, 92, 34, 92, 34, 92, 34,
    34, 92, 92, 92, 34, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92,
    34, 34, 92);
59.                         printf("\n\n\n\n\n\n\n\n");
60.                         printf("\t\t\t\t\tLoading...%d%c\n\t\t    ", t, 37);
61.
62.                         while (l <= u) {
63.                                 printf("%c", 22);
64.                                 l++;
65.                         }
66.                         printf("%c", 22);
67.                         t += 2;
68.                         Sleep(10);
69.                 }
70.                 Sleep(1000);
71.                 system("cls");
72.
73.
74.
75.                 int op;
76.                 do {
77.
78.                         //Display Logo
79.                         system("cls");
80.                         printf("ID :%s\n", uname);
81.                         printf("\t     _   ____  ________  _____           _____           _
    \n"
82.                                 "\t    | | | |  %c/  |_   _| | ___ %c         /  ___|
    | |                 \n"
83.                                 "\t    | | | | .  . | | |   | |_/ /__  ___  %c `--. _   _
    ___| |_ ___ _ __ ___  \n"
84.                                 "\t    | | | | |%c/| | | |   |  __/ _ %c/ __|  `--. %c | | /
    __| __/ _ %c '_ ` _ %c\n"
85.                                 "\t    | |_| | |  | | | |   | | | (_) %c__ %c /%c__/ /
    |_| %c__ %c ||  __/ | | | | |\n"
86.                                 "\t     %c___/%c_|
    |_/ %c_/   %c_|  %c___/|___/ %c____/ %c__, |___/%c__%c___|_| |_| |_|\n"
87.                                 "\t                                                    __/ |
    \n"
88.                                 "\t                                                   |___/
    \n", 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92, 92,
    92);
89.
90.
91.                         op = 0;//avoid execute the last case again,so assign 0 to op.
92.                         //printf("\nSelect an option ( 1 = View Menu, 2 = Sales Oder, 3 =
    Exit ): ");//main menu
93.
94.                         printf("\t\t\t\t----------------------------\n");
95.                         printf("\t\t\t\t|      1. View Menu      |\n");
96.                         printf("\t\t\t\t----------------------------\n");
97.                         printf("\t\t\t\t|      2. Sales Order    |\n");
98.                         printf("\t\t\t\t----------------------------\n");
99.                         printf("\t\t\t\t|      3. Exit           |\n");
100.                                printf("\t\t\t\t----------------------------\n");
101.                                printf("Please Enter Your Option :");
102.                                rewind(stdin);
103.                                op = getche();
104.                                op -= 48;
105.                                rewind(stdin);
106.                                switch (op) {
107.                                case 1:
108.                                        viewmenu();
109.                                        break;
110.                                case 2:
111.                                        vieworder();
112.                                        break;
113.                                case 3:
```

```
                                        break;
                                default:
                                        printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
                                        break;
                                }
                        } while (op != 3);
                        system("cls");

                        //display end page
                        printf("\n\n\n\n\n\n\n");
                        printf("\t\t\t\tU _____ u _   _   ____     \n"
                                "\t\t\t\t%c| ___%c|/| %c |%c|  |  _%c%c   \n"
                                "\t\t\t\t |  _|%c <|  %c| |>/| | | |  \n"
                                "\t\t\t\t | |___ U| |%c  |uU| |_| |%c \n"
                                "\t\t\t\t |_____| |_| %c_|  |____/ u \n"
                                "\t\t\t\t <<   >> ||   \\\\,-.|||_    \n"
                                "\t\t\t\t(__) (__)(_%c)  (_/(__)_)   \n\n", 92, 34, 92, 34,
    34, 92, 34, 92, 92, 92, 92, 34);
                        printf("\t\t\t%c THANKS FOR USING OUR UMT POS SYSTEM %c
    \n\n\n\t\t\t\t", 1, 1);
                        system("pause");
                        return 0;
                }
        }

        //Define the login page function
        void login() {
                //variable that use to exit login page
                int exit = 0;
                do {
                        system("cls");
                        printf("\t
    ================================================================\n");
                        printf("\t                          WELCOME TO UMT POS SYSTEM
    \n");
                        printf("\t
    \n");
                        printf("\t
    \n");
                        printf("\t      ======================  LOGIN SYSTEM
    ==========================\n");
                        printf("\t      |1.SignUp
    |\n");
                        printf("\t      |2.Login
    |\n");
                        printf("\t      |0.Exit
    |\n");
                        printf("\t
    ================================================================\n\n");
                        printf("Please Enter Your Option:");
                        int op;
                        scanf("%d", &op);

                        rewind(stdin);
                        switch (op) {
                        case 1:
                                //sign up username and password
                                system("cls");
                                printf("\t
    ================================================================\n");
                                printf("\t                          WELCOME TO UMT POS SYSTEM
    \n");
                                printf("\t
    \n");
                                printf("\t
    \n");
                                printf("\t      ======================  LOGIN SYSTEM
    ==========================\n");
```

```
166.                                printf("\t      |1.SignUp
    |\n");
167.                                printf("\t      |2.Login
    |\n");
168.                                printf("\t      |0.Exit
    |\n");
169.                                printf("\t
    ================================================================\n\n\n");
170.                                printf("\t                                    SIGN UP\n");
171.
      printf("=============================================================================================
    ==============\n");
172.                                printf("Please Enter Your ");
173.                                printf("\n\n\t      Username : ");
174.                                scanf("%[^\n]", uname);
175.                                rewind(stdin);
176.                                printf("\n\t        Password : ");
177.                                scanf("%d", &pw);
178.                                rewind(stdin);
179.                                printf("\n   Confirm your password : ");
180.                                scanf("%d", &cpw);
181.                                rewind(stdin);
182.                                if (pw != cpw) {
183.                                          printf("\n\t                Password Does Not
    Match,Please Try Again\n\n");
184.                                          pw = 0;
185.                                          cpw = 0;
186.                                          Sleep(1000);
187.                                          break;
188.                                }
189.                                else {
190.                                          system("cls");
191.                                          printf("\t
    ================================================================\n");
192.                                          printf("\t                          WELCOME TO UMT
    POS SYSTEM                    \n");
193.                                          printf("\t
    \n");
194.                                          printf("\t
    \n");
195.                                          printf("\t      ======================  LOGIN
    SYSTEM  =========================\n");
196.                                          printf("\t      |1.SignUp
    |\n");
197.                                          printf("\t      |2.Login
    |\n");
198.                                          printf("\t      |0.Exit
    |\n");
199.                                          printf("\t
    ================================================================\n\n");
200.                                          printf("\n\n\n\n\n\n\t
    SUCESSFULLY REGISTERED!\n");
201.                                          Sleep(1000);
202.                                          break;
203.                                }
204.                     case 2:
205.                                system("cls");
206.                                printf("\t
    ================================================================\n");
207.                                printf("\t                          WELCOME TO UMT POS SYSTEM
    \n");
208.                                printf("\t
    \n");
209.                                printf("\t
    \n");
210.                                printf("\t      ======================  LOGIN SYSTEM
    =========================\n");
211.                                printf("\t      |1.SignUp
    |\n");
```

```
212.                                printf("\t      |2.Login
    |\n");
213.                                printf("\t      |0.Exit
    |\n");
214.                                printf("\t
    ================================================================\n\n\n");
215.                                printf("\t                                        LOGIN\n");
216.
      printf("=============================================================================================
    ==============\n");
217.                                printf("Please Enter Your ");
218.                                printf("\n\n\t      Username : ");
219.                                scanf("%[^\n]", cuname);
220.                                rewind(stdin);
221.                                printf("\n\t        Password : ");
222.                                scanf("%d", &cpw);
223.                                rewind(stdin);
224.                                //check the username and password correct or not
225.                                if (strcmp(cuname, uname) == 0 && pw == cpw) {
226.                                          system("cls");
227.                                          printf("\n\n\n\n\n\n\n\n\n\n\t
    LOG IN SUCCESSFUL\n");
228.                                          printf("\n\t
    Hi %s\n\n", uname);
229.                                          printf("                                    Welcome
    to UMT POS SYSTEM");
230.                                          signup = 1;
231.                                          Sleep(1800);
232.                                          break;
233.                                }
234.                                else {
235.                                          if (strcmp(cuname, uname) != 0) {
236.                                                    printf("\t
    USER DOES NOT EXIST\n\n");
237.                                                    Sleep(1000);
238.                                                    break;
239.                                          }
240.                                          if (pw != cpw) {
241.                                                    printf("\n\t                          Wrong
    Password,Please try again\n");
242.                                                    Sleep(1000);
243.                                                    break;
244.                                          }
245.                                }
246.                      case 0:
247.                                exit = 1;
248.                                signup = 0;
249.                                printf("\n\t                        THANKS FOR USING OUR
    SYSTEM\n\n");
250.                                Sleep(1000);
251.                                break;
252.                      default:
253.                                printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
254.                                Sleep(1000);
255.                                break;
256.                      }
257.           } while (exit != 1 && signup != 1);
258.  }
259.
260.  //Define submenu functions
261.  void viewmenu() {
262.           int close = 0;
263.           do {
264.                      system("cls");
265.                      printf("ID :%s\n", uname);
266.                      printf("\n\t\t\t                  MENU\n");
267.                      printf("\t\t\t  ---------------------------------------\n");
268.                      printf("\t\t\t  |1 = Software Development Programming |\n");
269.                      printf("\t\t\t  |2 = Web Programming                  |\n");
```

```
270.                    printf("\t\t\t  |3 = Mobile Programming              |\n");
271.                    printf("\t\t\t  |0 = Exit                            |\n");
272.                    printf("\t\t\t  ------------------------------------\n");
273.                    printf("\n\n\t Please select a field to view: ");
274.
275.
276.                    int select;
277.                    select = getche();
278.                    select -= 48;
279.                    switch (select) {
280.                    case 1:
281.                              system("cls");
282.                              printf("ID :%s\n\n", uname);
283.                              printf("\n\t\t  ------------------------------------------
    ----------------\n");
284.                              printf("\t\t  |Software Development Programming
    |\n");
285.                              printf("\t\t  ------------------------------------------
    --------------\n");
286.                              printf("\t\t  |A = Beginning with Programming Logic and
    Design    RM%.2f|\n", PRICE_A);
287.                              printf("\t\t  |B = C Programming
    RM%.2f|\n", PRICE_B);
288.                              printf("\t\t  |C = Programming Fundamentals
    RM%.2f|\n", PRICE_C);
289.                              printf("\t\t  ------------------------------------------
    --------------\n");
290.                              printf("\t\t  Your input : %d\n\n", select);
291.                              printf("\t\t       Press any key to return to the previous
    page\n\n\n");
292.                              system("pause");
293.                              break;
294.                    case 2:
295.                              system("cls");
296.                              printf("ID :%s\n\n", uname);
297.                              printf("\n\t\t  ------------------------------------------
    -----------------\n");
298.                              printf("\t\t  |Web Programming
    |\n");
299.                              printf("\t\t  ------------------------------------------
    ---------------\n");
300.                              printf("\t\t  |D = HTML and CSS Design
    RM%.2f|\n", PRICE_D);
301.                              printf("\t\t  |E = Web Programming
    RM%.2f|\n", PRICE_E);
302.                              printf("\t\t  |F = ASP.NET Programming
    RM%.2f|\n", PRICE_F);
303.                              printf("\t\t  ------------------------------------------
    ---------------\n");
304.                              printf("\t\t  Your input : %d\n\n", select);
305.                              printf("\t\t       Press any key to return to the previous
    page\n\n\n");
306.                              system("pause");
307.                              break;
308.                    case 3:
309.                              system("cls");
310.                              printf("ID :%s\n\n", uname);
311.                              printf("\n\t\t  ------------------------------------------
    ----------------\n");
312.                              printf("\t\t  |Mobile Programming
    |\n");
313.                              printf("\t\t  ------------------------------------------
    --------------\n");
314.                              printf("\t\t  |G = Mobile Design and Programming
    RM%.2f|\n", PRICE_G);
315.                              printf("\t\t  |H = Building Mobile App
    RM%.2f|\n", PRICE_H);
316.                              printf("\t\t  |I = Android Programming
    RM%.2f|\n", PRICE_I);
```

```
317.                                printf("\t\t  ------------------------------------------
    --------------\n");
318.                                printf("\t\t  Your input : %d\n\n", select);
319.                                printf("\t\t       Press any key to return to the previous
    page\n\n\n");
320.                                system("pause");
321.                                break;
322.                        case 0:
323.                                system("cls");
324.                                close = 1;
325.                                break;
326.                        default:
327.                                printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
328.                        }
329.            } while (close != 1);
330.    }
331.    //Define order function
332.    void vieworder() {
333.            do {
334.                        salesorder();
335.                        receipt();
336.            } while (nextorder == 'Y');
337.            summary();
338.    }
339.    //Define order function
340.    void salesorder() {
341.
342.            printf("\nSales Order No : %d\n", no);
343.
344.            do {
345.                        int i;
346.                        rewind(stdin);
347.                        system("cls");
348.                        printf("ID :%s\n", uname);
349.                        printf("\t\t    ------------------------------------------------------
    \n");
350.                        printf("\t\t    |Sales Order No : %d
    |\n", no);
351.                        printf("\t\t    |-----------------------------------------------------
    |\n");
352.                        printf("\t\t    |Book A x%5d    Book D x%5d    Book G x%5d     |\n",
    quantityBa, quantityBd, quantityBg);
353.                        printf("\t\t    |Book B x%5d    Book E x%5d    Book H x%5d     |\n",
    quantityBb, quantityBe, quantityBh);
354.                        printf("\t\t    |Book C x%5d    Book F x%5d    Book I x%5d     |\n",
    quantityBc, quantityBf, quantityBi);
355.                        printf("\t\t    ------------------------------------------------------
    \n");
356.                        printf("Please Enter The Book Type (X to Exit):\t");
357.                        rewind(stdin);
358.
359.                        typeOfBook = getche();
360.                        printf("\n");
361.
362.                        switch (typeOfBook)
363.                        {
364.                        case 'A':
365.                        case'a':
366.                                quantityBa = 0;
367.                                rewind(stdin);
368.                                printf("                                Quantity : ");
369.                                scanf("%d", &quantityBa);
370.                                totalPria = quantityBa * PRICE_A;
371.                                break;
372.                        case 'B':
373.                        case'b':
374.                                quantityBb = 0;
375.                                rewind(stdin);
376.                                printf("                                Quantity : ");
```

```
377.                            scanf("%d", &quantityBb);
378.                            totalPrib = quantityBb * PRICE_B;
379.                            break;
380.                    case 'C':
381.                    case'c':
382.                            quantityBc = 0;
383.                            rewind(stdin);
384.                            printf("                                Quantity : ");
385.                            scanf("%d", &quantityBc);
386.                            totalPric = quantityBc * PRICE_C;
387.                            break;
388.                    case 'D':
389.                    case'd':
390.                            quantityBd = 0;
391.                            rewind(stdin);
392.                            printf("                                Quantity : ");
393.                            scanf("%d", &quantityBd);
394.                            totalPrid = quantityBd * PRICE_D;
395.                            break;
396.                    case 'E':
397.                    case'e':
398.                            quantityBe = 0;
399.                            rewind(stdin);
400.                            printf("                                Quantity : ");
401.                            scanf("%d", &quantityBe);
402.                            totalPrie = quantityBe * PRICE_E;
403.                            break;
404.                    case'F':
405.                    case'f':
406.                            quantityBf = 0;
407.                            rewind(stdin);
408.                            printf("                                Quantity : ");
409.                            scanf("%d", &quantityBf);
410.                            totalPrif = quantityBf * PRICE_F;
411.                            break;
412.                    case'G':
413.                    case'g':
414.                            quantityBg = 0;
415.                            rewind(stdin);
416.                            printf("                                Quantity : ");
417.                            scanf("%d", &quantityBg);
418.                            totalPrig = quantityBg * PRICE_G;
419.                            break;
420.                    case'H':
421.                    case'h':
422.                            quantityBh = 0;
423.                            rewind(stdin);
424.                            printf("                                Quantity : ");
425.                            scanf("%d", &quantityBh);
426.                            totalPrih = quantityBh * PRICE_H;
427.                            break;
428.                    case'I':
429.                    case'i':
430.                            quantityBi = 0;
431.                            rewind(stdin);
432.                            printf("                                Quantity : ");
433.                            scanf("%d", &quantityBi);
434.                            totalPrii = quantityBi * PRICE_I;
435.                            break;
436.                    case'X':
437.                    case'x':
438.                            typeOfBook = 'X';
439.                            nextorder = 'N';
440.                            break;
441.                    default:
442.                            printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
443.                            Sleep(1000);
444.                            break;
445.                    }
```

```
446.            } while (typeOfBook != 'X');
447.  }
448.  //Define receipt functions
449.  void receipt() {
450.            char confirm;
451.            //if quantity more than 0, will ask if the user confirm the order
452.            if (quantityBa != 0 || quantityBb != 0 || quantityBc != 0 || quantityBd != 0 ||
    quantityBe != 0 || quantityBf != 0 || quantityBg != 0 || quantityBh != 0 || quantityBi !=
    0) {
453.
454.                     do {
455.                              printf("\n\t\tConfirm the order ? (Y=yes N=no) : ");
456.                              rewind(stdin);
457.                              //auto change the word to uppercase
458.                              confirm = toupper(getchar());
459.                              if (confirm != 'Y' && confirm != 'N')
460.                                       printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
461.                     } while (confirm != 'Y' && confirm != 'N');
462.                     switch (confirm) {
463.                     case'Y':
464.
465.
466.                              //printf("ID :%s\n", uname);
467.                              printf("\n\t\t                          ORDER LIST");
468.                              printf("\n\t\t    ----------------------------------------
    -----------\n");
469.                              printf("\t\t
    ==================================================\n");
470.                              if (quantityBa != 0) {
471.                                       printf("\t\t     Book A x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBa, PRICE_A, totalPria);
472.                                       sumba = sumba + totalPria;
473.                                       sumqa = sumqa + quantityBa;
474.                              }
475.                              if (quantityBb != 0) {
476.                                       printf("\t\t     Book B x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBb, PRICE_B, totalPrib);
477.                                       sumbb = sumbb + totalPrib;
478.                                       sumqb = sumqb + quantityBb;
479.                              }
480.                              if (quantityBc != 0) {
481.                                       printf("\t\t     Book C x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBc, PRICE_C, totalPric);
482.                                       sumbc = sumbc + totalPric;
483.                                       sumqc = sumqc + quantityBc;
484.                              }
485.                              if (quantityBd != 0) {
486.                                       printf("\t\t     Book D x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBd, PRICE_D, totalPrid);
487.                                       sumbd = sumbd + totalPrid;
488.                                       sumqd = sumqd + quantityBd;
489.                              }
490.                              if (quantityBe != 0) {
491.                                       printf("\t\t     Book E x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBe, PRICE_E, totalPrie);
492.                                       sumbe = sumbe + totalPrie;
493.                                       sumqe = sumqe + quantityBe;
494.                              }
495.                              if (quantityBf != 0) {
496.                                       printf("\t\t     Book F x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBf, PRICE_F, totalPrif);
497.                                       sumbf = sumbf + totalPrif;
498.                                       sumqf = sumqf + quantityBf;
499.                              }
500.                              if (quantityBg != 0) {
501.                                       printf("\t\t     Book G x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBg, PRICE_G, totalPrig);
502.                                       sumbg = sumbg + totalPrig;
503.                                       sumqg = sumqg + quantityBg;
```

```
504.                                }
505.                                if (quantityBh != 0) {
506.                                        printf("\t\t     Book H x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBh, PRICE_H, totalPrih);
507.                                        sumbh = sumbh + totalPrih;
508.                                        sumqh = sumqh + quantityBh;
509.                                }
510.                                if (quantityBi != 0) {
511.                                        printf("\t\t     Book I x %3d @ RM%6.2f          =
    RM%10.2f \n", quantityBi, PRICE_I, totalPrii);
512.                                        sumbi = sumbi + totalPrii;
513.                                        sumqi = sumqi + quantityBi;
514.                                }
515.                                subtotal = totalPria + totalPrib + totalPric + totalPrid +
    totalPrie + totalPrif + totalPrig + totalPrih + totalPrii;
516.
517.                                printf("\t\t
    ====================================================\n");
518.                                printf("\t\t     Subtotal                        =
    RM%10.2f \n", subtotal);
519.                                discount = disc(subtotal);
520.                                printf("\t\t     Discount                        =
    RM%10.2f \n", discount);
521.                                printf("\t\t
    ====================================================\n");
522.                                //calculate total price of order
523.                                total = subtotal - discount;
524.                                printf("\t\t     Total to pay                    =
    RM%10.2f \n", total);
525.                                printf("\t\t
    ====================================================\n\n");
526.
527.                                alldiscount += discount;
528.                                totalsum += total;
529.                                totalPria = 0, totalPrib = 0, totalPric = 0, totalPrid = 0,
    totalPrie = 0, totalPrif = 0, totalPrig = 0, totalPrih = 0, totalPrii = 0;
530.                                quantityBa = 0, quantityBb = 0, quantityBc = 0, quantityBd =
    0, quantityBe = 0, quantityBf = 0, quantityBg = 0, quantityBh = 0, quantityBi = 0;
531.                                subtotal = 0;
532.                                sumno = no;
533.                                no++;
534.                                do {
535.                                        printf("Do you still want to continue
    ordering?(Y=yes N=no) : ");
536.                                        rewind(stdin);
537.                                        nextorder = toupper(getchar());
538.                                        rewind(stdin);
539.
540.                                        if (nextorder != 'Y' && nextorder != 'N')
541.                                                printf("\n\t\t\t\t\aINVALID INPUT,
    PLEASE ENTER AGAIN\n\n");
542.
543.                                } while (nextorder != 'Y' && nextorder != 'N');
544.
545.                                break;
546.                        case 'N':
547.                                quantityBa = 0, quantityBb = 0, quantityBc = 0, quantityBd =
    0, quantityBe = 0, quantityBf = 0, quantityBg = 0, quantityBh = 0, quantityBi = 0;
548.                                break;
549.                        default:
550.                                printf("\n\t\t\t\t\aINVALID INPUT,  PLEASE ENTER
    AGAIN\n\n");
551.                                break;
552.                        }
553.            }
554.   }
555.   //Define summary function
556.   void summary() {
557.            int sumquantity = sumqa + sumqb + sumqc + sumqd + sumqe + sumqf + sumqg + sumqh
    + sumqi;
```

```
558.            float sumprice = sumba + sumbb + sumbc + sumbd + sumbe + sumbf + sumbg + sumbh +
    sumbi;
559.            //if user has ordered, show summary, if not have any order will not show the
    summary
560.            if (sumqa != 0 || sumqb != 0 || sumqc != 0 || sumqd != 0 || sumqe != 0 ||
    sumqf != 0 || sumqg != 0 || sumqh != 0 || sumqi != 0) {
561.                    system("cls");
562.                    printf("ID :%s\n", uname);
563.                    printf("\n\n\t\t\t       DAILY SALES ORDER SUMMARY REPORT\n");
564.                    printf("\t\t\t       -------------------------------\n\n");
565.                    printf("\t\t  Total Number of Sales Order = %d\n\n", sumno);
566.                    printf("\t\t
    ============================================================\n");
567.                    printf("\t\t   Book         Quantity Sold Sales
    Amount\n");
568.                    printf("\t\t
    ============================================================\n");
569.                    if (sumqa != 0)
570.                            printf("\t\t
    A                   %3d                         %10.2f \n", sumqa, sumba);
571.                    if (sumqb != 0)
572.                            printf("\t\t
    B                   %3d                         %10.2f \n", sumqb, sumbb);
573.                    if (sumqc != 0)
574.                            printf("\t\t
    C                   %3d                         %10.2f \n", sumqc, sumbc);
575.                    if (sumqd != 0)
576.                            printf("\t\t
    D                   %3d                         %10.2f \n", sumqd, sumbd);
577.                    if (sumqe != 0)
578.                            printf("\t\t
    E                   %3d                         %10.2f \n", sumqe, sumbe);
579.                    if (sumqf != 0)
580.                            printf("\t\t
    F                   %3d                         %10.2f \n", sumqf, sumbf);
581.                    if (sumqg != 0)
582.                            printf("\t\t
    G                   %3d                         %10.2f \n", sumqg, sumbg);
583.                    if (sumqh != 0)
584.                            printf("\t\t
    H                   %3d                         %10.2f \n", sumqh, sumbh);
585.                    if (sumqi != 0)
586.                            printf("\t\t
    I                   %3d                         %10.2f \n", sumqi, sumbi);
587.
588.                    printf("\t\t
    ============================================================\n");
589.                    printf("\t\t   TOTAL                %3d                        %10.2f
    \n", sumquantity, sumprice);
590.                    printf("\t\t   TOTAL DISCOUNT                                  %10.2f
    \n", alldiscount);
591.                    printf("\t\t
    ============================================================\n");
592.                    printf("\t\t   TOTAL CHARGES                                   %10.2f
    \n", totalsum);
593.                    printf("\t\t
    ============================================================\n\n\n");
594.                    printf("\t\t\t\tTHANK YOU %s, HAVE A NICE DAY!!\n\n", uname);
595.                    system("pause");
596.            }
597.    }
598.    //Define the discount function
599.    float disc(float x) {
600.            if (x >= 500)
601.                    return x * DISCRATE1 / 100;
602.            else if (x >= 300)
603.                    return x * DISCRATE2 / 100;
604.            else if (x >= 200)
605.                    return x * DISCRATE3 / 100;
606.            else
```

```
607.                        return 0;
608.    }
```