

# FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

Department of Computing and Information Technology

### Sabah Branch Campus

### Academic Year 2023/2024

#### **Session 202005**

## **AACS1564 Problem Solving and Programming**

#### **Assignment**

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Tutorial Group	:	-						
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Total Marks	:	/ 100 / 40						
Grade	•							

#### Declaration of Originality

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

Signature: Name: <u>LIEW WEI WEI</u> Date:  $\frac{1}{27/9/2023}$ 

AACS1564 Problem Solving and Programming (Assignment Rubric) – Assignment

	Attribute/Subattribute and				Attainment Scale	2		St	udent At	tainment
CLO	Criteria	Weight (%)	Very Weak - 1	Weak - 2	Fair - 3	Good - 4	Very Good - 5	Level	Marks	CLO Marks
CLO <sub>2</sub>	Problem Solving/Problem Identification — Solution Design  · Method of solution · Constant and variables Overall program design	20%	Not able to design a solution (flowchart or pseudocode) for the problem. No constant and variables presented.	with major logical errors	Able to design solution (flowchart or pseudocode) with minor logical errors for the problem. Explanation on constant and variables are incomplete.	Able to design solution (flowchart or pseudocode) for the problem. Constant and variables are explained and presented.	Able to design an efficient solution (flowchart or pseudocode) for the problem. Constant and variables are well explained and presented.			
	Problem Solving/Analysis  - Process Testing & Outputs  · Test cases (at least 3) and presented in table form  · Output screenshot for each of the test cases	10%	Not able to perform process testing. No screenshot on the output.		Able to perform process testing with less than 3 test cases. Test cases are presented in table form. Incomplete output screenshots.	process testing and generate at least 3 test cases. All the test cases are presented in table form and	Able to perform process testing and generate all possible test cases. All test cases are well presented in table form and supported by output screenshots.			
	Problem Solving/Application  -Beginning and Ending of the System  System Logo Display menu with prices Ending Message	5%	Not able to display system logo, menu and prices, and ending message.	and prices, and	Display complete system logo, available menu and prices, and ending message without proper arrangement.	system logo, available menu and prices, and	Display complete system logo, available menu and prices, and ending message with clarity, detailed and proper arrangement.			

### AACS1564 Problem Solving and Programming (Assignment Rubric) – Assignment

CLO 2	Problem Solving/Application  - User Input and Error Handling  User input Error handling (out of range)	5%	Not able to obtain user input. No error handling.	Able to obtain part of the user input. No error handling.	Able to obtain user input. Minor error handling.	user input with proper error	Able to obtain user input with proper error handling for required input with proper error messages.	
	Problem Solving/Application -Purchasing Process  · Process bill details (calculation) · Payment process (pay amount and balance)	10%	No bill calculation and payment processes.	bill calculation and payment		bill calculation	Able to perform bill calculation and payment processes and produce accurate results with proper formatting.	
	Problem Solving/Application  - Daily Sales Report  · Accumulation of required totals – accuracy · Layout/Format – tidiness · Sales by category	15%	Not able to generate Daily Sales Report	Able to generate Daily Sales Report. Inaccurate information (Major). No report format and arrangement.	Able to generate Daily Sales Report. Inaccurate information (Minor). Improper report format and arrangement.	Able to generate Daily Sales Report with accurate information. Improper format and arrangement.	Able to generate Daily Sales Report with accurate information, tidy and neat format.	
	Problem Solving/Synthesis  -Programming Skills  · Looping · Condition · User defined function · Use of appropriate comments	10%	Improper structure of programming codes.	of programming code without comments. No	Proper structure of programming code without comments. Minor user defined function is applied.	Proper structure of programming code with minor comments. User defined function is applied.	Well structure of programming code with comments to increase the clarity. Effectively used of user defined function.	

	Problem Solving/Synthesis		No additional	Less significant	Additional	Useful and	Excellent, useful		
	<ul><li>–Additional Feature</li></ul>		feature added to	of additional	feature is added	practical	and practical		
		5%	the system.	feature is added	to the system.	additional	additional feature		
				to the system.		feature added to	added to the		
						the system.	system.		
	Inquisitive Mind – Initiative in		No initiative to	Demonstrate	Demonstrate	Demonstrate	Demonstrate		
CLO3	Completing Task		complete a task.	limited	moderate	good initiative	excellent initiative		
		10%		initiative in	initiative in	in completing a	in completing a		
				completing a	completing a	task.	task.		
				task.	task.				
	Inquisitive Mind – Effort in		No effort to	Minimal effort	Sufficient effort	Good effort to	Excellent effort to		
	Completing Report	10%	complete the	to complete the	to complete the	complete the	complete the		
			report.	report.	report.	report.	report.		
	Total	100%							

# **TABLE OF CONTENTS**

1.	FRONT PAGE	1
2. - 4	MARKING RUBRIC	2
3.	TABLE OF CONTENTS	5
4.	PURPOSE OF SYSTEM	6
5.	PSEUDOCODE	7
6.	ADDITIONAL FEATURES	8
7. 23	PROGRAM TESTING SCENARIOS & PROGRAM TESTING OUTPUTS	9 -
8.	CONSTANTS AND VARIABLES	
8.1	CONSTANTS	24
8.2	2 VARIABLES25	5-26

# **PURPOSE OF SYSTEM**

The Covid-19 pandemic has significantly affected and reduced the average sales of multiple industries. In converse, the food delivery restaurants have increased the sales during this pandemic period. H&S Restaurant is one of the restaurants that sells various meals and provides delivery services to customers. Recently, the owner of H&S Restaurant, Mr. Chris has found that there is difficulty in he needs manually recording each customer order and their billing. As a result, he requested a system that could efficiently keep records of bill customers and the meals total sold each day.

As a system developer, I am assigned by my program manager to develop a simple Meal Billing System for the H&S Restaurant to receive orders from customers and issue the bills to their customers and also can produce a basic daily meal sales report for the user.

### **PSEUDOCODE**

- 1. START
- 2. Display Restaurant Logo
- 3. Display "Welcome to H&S Restaurant, what would you like to order?"
- 4. Display Restaurant Menu
- 5. Display initializes an empty order list
- 6. Prompt user to input (between num 1 to 10)
- 7. Read user's choice
- 8. IF choice = valid
- 9. Break the loop
- 10. IF choice is invalid
- 11. Display "incorrect input"
- 12. Continue loop
- 13. Prompt user to input quantity
- 14. IF quantity is 0
- 15. Display "invalid enter again"
- 16. Display choices add more or check out
- 17. Prompt user to choose
- 18. IF choice = check out
- 19. Break the loop
- 20. IF choice = add more
- 21. Continue loop
- 22. Add selected items and quantities to order list
- 23. Display the order details charges of meals SST total amount
- 24. Prompt user for payment
- 25. Read payment amount
- 26. IF payment amount is less than total
- 27. Display "cash not enough" and ask for make payment again
- 28. Calculate and display the change
- 29. Prompt user choose 1 for Next Customer and 2 for Sales Report
- 30. IF choice = 1
- 31. Continue loop
- 32. IF choice = 2
- 33. Break the loop
- 34. IF choice < 1 or > 2
- 35. Display "invalid re-enter again"
- 36. Display running date
- 37. Display header of daily meal sales report
- 38. Display the total amount sales total amout meals of the day
- 39. END

## **ADDITIONAL FEATURES**

I have added some features to this system, they are auto-counting the customers when the user selects to next customer, and it will be at the top part after "Welcome to H & S Restaurant, would you like to order?". The second feature is customers can add more meals after their 1<sup>st</sup> order if they choose to add more. Lastly, the feature added is a date, that can run the same as the actual date.

# PROGRAM TESTING SCENARIOS & PROGRAM TESTING OUTPUTS

# 1<sup>st</sup> Scenario – Counted customers

	Input	Output
Customer No.	Next Customer (Press 1) or Sales Report (Press 2)	Customer No.
1	1	2
2	1	3
3	1	4
4	1	5
5	1	6

### **Output:**

1st Test

```
to H&S Restaurant, would you like to order?
1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                                                       2.00
7.90
12.90
8.50
6.50
7.90
3.00
1.00
4.50
2.90
Enter the type of meal (1-10): 1
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                                                          CHECK OUT
  Total quantity(Roti Canai)
Total quantity(Cheese Naan)
Total quantity(Nasi Briyani)
Total quantity(Nasi Bregari)
Total quantity(Masal Nee Gorengss)
Total quantity(Masal Nosa)
Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Teh Tarik)
Total quantity(Leng Fun Susu)
Total quantity(Leng Fun Susu)
Total quantity(Leng Fun Susu)
                                                                         = RM 2.00
  Total Service/Sales tax 6% = RM 0.12
  Total : RM 2.12
  Paid : RM 3
  Changes : RM 0.88
  Thank You and Please Come Again.
 Welcome to H&S Restaurant, would you like to order?
 Customer number: 2
                                                                        Price
```

2<sup>nd</sup> Test



#### 3rd Test

```
Welcome to H&S Restaurant, would you like to order?
Customer number: 3
Meals
                                               Price
                                                        2.00
7.90
12.90
1. Roti Canai
                                             RM
2. Cheese Naan
                                             RM
3. Nasi Briyani
                                             RM
                                                       8.50
6.50
7.90
3.00
                                             RM
RM

    Mamak Mee Goreng

5. Masalah Dosa
5. Hasalan Dosa
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                             RM
                                             RM
                                             RM
RM
                                                        1.00
                                                       4.50
                                             RM
Enter the type of meal (1-10): 10
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                                      CHECK OUT
 Total quantity(Roti Canai)
                                                                 |0|
|0|
                                                                              RM 0.00
  Total quantity(Cheese Naan)
Total quantity(Nasi Briyani)
                                                                              RM 0.00
                                                                              RM 0.00
 Total quantity(Masi Briyani)
Total quantity(Masalah Dosa)
Total quantity(Masalah Dosa)
Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Air Suam)
Total quantity(Leong Fun Susu)
Total quantity(100 Plus)
                                                                              RM 0.00
RM 0.00
                                                                 |0|
|0|
|0|
|0|
|0|
|1|
                                                                              RM 0.00
                                                                              RM 0.00
                                                                              RM 0.00
RM 0.00
                                                                               RM 2.90
                                               = RM 2.90
 Total Service/Sales tax 6%
                                              = RM 0.17
 Total : RM 3.07
 Paid : RM 4
 Changes : RM 0.93
 Thank You and Please Come Again.
  Next customer? (Press 1) , Sales Report (Press 2): 1
     ______
||___|
                     iō
Welcome to H&S Restaurant, would you like to order?
Customer number: 4
Meals
                                               Price
                                                       2.00
7.90
12.90
1. Roti Canai
                                             RM
                                             RM
2. Cheese Naan
Nasi Briyani
                                             RM
4. Mamak Mee Goreng
5. Masalah Dosa
                                             RM
RM
                                                        8.50
                                                        6.50
7.90
3.00
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                             RM
                                             RM
                                                       1.00
4.50
2.90
                                             RM
                                             RM
Enter the type of meal (1-10):
```

#### 4th Test

```
Welcome to H&S Restaurant, would you like to order?
Customer number: 4
Meals
                                                              Price
 1. Roti Canai
                                                                          2.00
7.90
12.90
                                                             RM
1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                             RM
                                                            RM
RM
                                                                          6.50
7.90
                                                            RM
RM
                                                                          3.00
1.00
                                                                           4.50
Enter the type of meal (1-10): 6
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                                                  CHECK OUT
 Total quantity(Roti Canai)
Total quantity(Cheese Naan)
Total quantity(Masi Briyani)
Total quantity(Masalah Dosa)
Total quantity(Soto)
Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Air Suam)
Total quantity(Leong Fun Susu)
Total quantity(Leong Fun Susu)
                                                                                                        RM 0.00
RM 0.00
                                                                                       |0|
|0|
|0|
|0|
|1|
|0|
|0|
                                                                                                        RM 0.00
RM 0.00
RM 0.00
RM 7.90
RM 0.00
RM 0.00
                                                                                                         RM 0.00
                                                              = RM 7.90
  Total Service/Sales tax 6% = RM 0.47
  Total : RM 8.37
  Paid : RM 9
  Changes : RM 0.63
  Thank You and Please Come Again.
  Next customer? (Press 1) , Sales Report (Press 2): 1
Welcome to H&S Restaurant, would you like to order?
Customer number: 5
Meals
                                                              Price
1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
                                                             RM
RM
                                                                          2.00
7.90
12.90
8.50
6.50
7.90
3.00
1.00
4.50
2.90
                                                             RM
RM
RM
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                             RM
RM
                                                             RM
RM
Enter the type of meal (1-10):
```

#### 5<sup>th</sup> Test

```
iō:
     ËÏ
Welcome to H&S Restaurant, would you like to order?
Customer number: 5
Meals
                                          Price
                                                   2.00
7.90
12.90
1. Roti Canai
2. Cheese Naan
                                         RM

    Nasi Briyani
    Mamak Mee Goreng

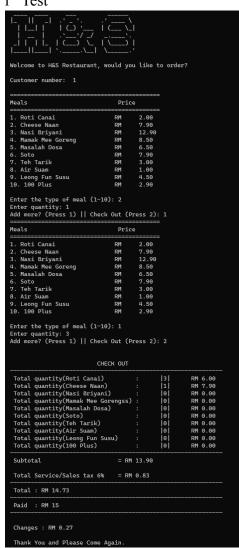
                                         RM
RM
RM
RM
                                                   8.50
                                                   6.50
7.90
5. Masalah Dosa
6. Soto
7. Teh Tarik
                                         RM
                                                   3.00
                                         RM
RM
RM
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                   1.00
4.50
2.90
Enter the type of meal (1-10): 7
Enter quantity: 3
Add more? (Press 1) || Check Out (Press 2): 2
                                  CHECK OUT
 Total quantity(Roti Canai)
                                                                       RM 0.00
                                                            101
 Total quantity(Cheese Naan)
Total quantity(Nasi Briyani)
                                                            įθį
                                                                        RM 0.00
                                                            ļθļ
                                                                        RM 0.00
 Total quantity(Mamak Mee Gorengss)
Total quantity(Masalah Dosa)
Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Air Suam)
                                                                       RM 0.00
RM 0.00
                                                            |0|
|0|
|0|
|3|
                                                                        RM 0.00
                                                                        RM 9.00
                                                                        RM 0.00
                                                           |0|
|0|
 Total quantity(Leong Fun Susu)
Total quantity(100 Plus)
                                                                       RM 0.00
RM 0.00
                                           = RM 9.00
 Total Service/Sales tax 6%
                                          = RM 0.54
 Total : RM 9.54
 Paid : RM 10
 Changes : RM 0.46
 Thank You and Please Come Again.
 Next customer? (Press 1) , Sales Report (Press 2): 1
  i'ō';
                  1 (___)
Welcome to H&S Restaurant, would you like to order?
Customer number: 6
Meals
                                          Price
                                                   2.00
7.90
12.90
1. Roti Canai
2. Cheese Naan
                                         RM
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
                                         RM
RM
RM
                                                   8.50
6.50
7.90
6. Soto
7. Teh Tarik
8. Air Suam
                                         RM
                                         RM
                                                   3.00
                                         RM
RM
                                                   1.00
4.50
2.90
9. Leong Fun Susu
10. 100 Plus
Enter the type of meal (1-10):
```

In	puts		Outputs					
Add More (Press 1) or Check Out (Press 2)	Meal Type	Quantity	2 <sup>nd</sup> Round order Meal Charges (RM)	Charges order Meal Charges		Total Amount with SST (RM)		
1	1	3	2.00 * 3 = 6.00	13.90	0.83	14.73		
1	2	2	4.50* 1 = 7.90	12.40	0.74	13.14		
1	3	3	2.00* 1 = 38.70	6.50	0.39	6.89		
1	4	1	1 * 8.50 = 8.50	29.80	1.79	31.59		
1	5	1	1 * 6.50 = 6.50	9.50	0.51	8.50		

# 2<sup>nd</sup> Scenario – Same customer can add more meals

#### OUTPUT:

#### 1st Test



```
Welcome to H&S Restaurant, would you like to order?
Customer number: 2
Meals
                                 Price
1. Roti Canai
                                RM
                                        2.00
2. Cheese Naan
3. Nasi Briyani
                                RM
                                        7.90
                                        12.90
                                RM
4. Mamak Mee Goreng
                                RM
                                        8.50
                                        6.50
5. Masalah Dosa
                                RM
6. Soto
                                RM
                                        7.98
7. Teh Tarik
                                RM
                                        3.00
8. Air Suam
                                RM
                                        1.00
9. Leong Fun Susu
                                RM
                                        4.50
10. 100 Plus
                                RM
                                        2.90
Enter the type of meal (1-10): 6
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 1
Meals
                                 Price
1. Roti Canai
                                        2.00
2. Cheese Naan
                                RM
                                        7.98
3. Nasi Briyani
                                        12.90
                                RM
4. Mamak Mee Goreng
                                RΜ
                                        8.50
5. Masalah Dosa
                                RM
                                        6.50
6. Soto
                                RM
                                        7.90
7. Teh Tarik
8. Air Suam
                                        3.00
                                RM
                                RΜ
                                        1.00
9. Leong Fun Susu
10. 100 Plus
                                        4.50
                                RM
                                        2.90
                                RM
Enter the type of meal (1-10): 9
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                           CHECK OUT
 Total quantity(Roti Canai)
                                                        RM 0.00
 Total quantity(Cheese Naan)
                                                        RM 0.00
                                               101
 Total quantity(Nasi Briyani)
                                              |8|
                                                        RM 0.00
 Total quantity(Mamak Mee Gorengss)
                                                        RM 0.00
                                               |0|
 Total quantity(Masalah Dosa)
                                               [8]
                                                        RM 0.00
 Total quantity(Soto)
                                               ļιį
                                                        RM 7.98
                                                        RM 0.00
 Total quantity(Teh Tarik)
                                               |0|
 Total quantity(Air Suam)
                                               |0|
                                                        RM 0.00
 Total quantity(Leong Fun Susu)
Total quantity(100 Plus)
                                               11
                                                        RM 4.50
                                              [8]
                                                        RM 0.00
                                 = RM 12.40
                                 = RM 0.74
 Total Service/Sales tax 6%
 Total : RM 13.14
 Paid : RM 14
 Changes : RM 0.86
 Thank You and Please Come Again.
```

#### 3rd Test

```
i'ō';
Welcome to H&S Restaurant, would you like to order?
Customer number: 3
Meals
                                   Price
                                          2.00
7.90
1. Roti Canai
                                  RM
2. Cheese Naan
                                  RM
3. Nasi Briyani
                                          12.90
                                  RM
4. Mamak Mee Goreng
                                  RM
                                          8.50
5. Masalah Dosa
                                  RM
                                          6.50
6. Soto
                                  RM
                                          7.90
7. Teh Tarik
8. Air Suam
                                          3.00
                                  RM
                                          1.00
9. Leong Fun Susu
10. 100 Plus
                                          4.50
                                  RM
                                  RM
                                          2.98
Enter the type of meal (1-10): 9
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 1
                                   Price
1. Roti Canai
                                          2.00
                                          7.90
12.90
2. Cheese Naan
                                  RM
3. Nasi Briyani
                                  RM
4. Mamak Mee Goreng
                                  RM
                                          8.50
5. Masalah Dosa
                                  RM
                                          6.50
                                          7.90
6. Soto
                                  RM
                                          3.00
7. Teh Tarik
                                  RM
8. Air Suam
                                  RM
                                          1.00
9. Leong Fun Susu
10. 100 Plus
                                  RM
                                          4.50
                                          2.90
Enter the type of meal (1-10): 1
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                            CHECK OUT
 Total quantity(Roti Canai)
                                                          RM 2.00
 Total quantity(Cheese Naan)
                                                 |0|
                                                           RM 0.00
 Total quantity(Nasi Briyani)
                                                 |0|
                                                           RM 0.00
 Total quantity(Mamak Mee Gorengss)
                                                 |0|
                                                           RM 0.00
 Total quantity(Masalah Dosa)
                                                 įθį
                                                           RM 0.00
 Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Air Suam)
                                                 įθį
                                                          RM 0.00
                                                 įθį
                                                          RM 0.00
                                                 |θ|
|1|
                                                          RM 0.00
                                                          RM 4.50
 Total quantity(Leong Fun Susu)
Total quantity(100 Plus)
                                                          RM 0.00
                                                 |8|
                                   = RM 6.50
 Total Service/Sales tax 6%
                                   = RM 0.39
 Total : RM 6.89
 Paid : RM 7
 Changes : RM 0.11
 Thank You and Please Come Again.
```

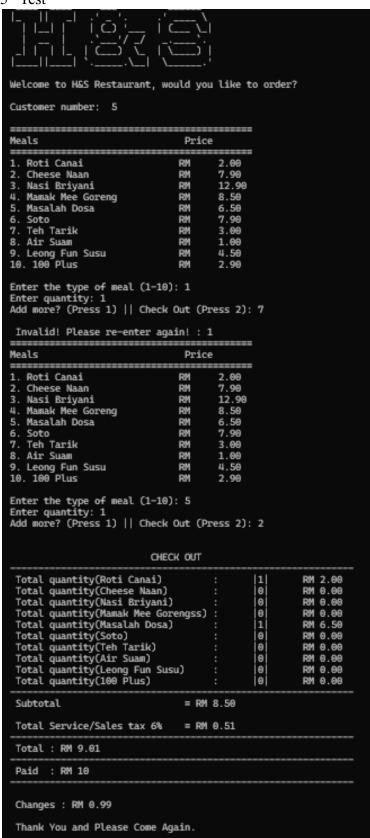
#### 4th Test

```
įŌ,
 Welcome to H&S Restaurant, would you like to order?
 Customer number: 4
 Meals
                                                                               Price
1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
                                                                            RM
RM
RM
                                                                                             2.00
7.90
12.90
8.50
6.50
7.90
3.00
1.00
4.50
2.90
                                                                            RM
RM
RM
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                                            RM
RM
 Enter the type of meal (1-10): 3
Enter quantity: 2
Add more? (Press 1) || Check Out (Press 2): 1
                                                                               Price
1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
4. Mamak Mee Goreng
5. Masalah Dosa
                                                                                             2.00
7.90
12.90
8.50
                                                                            RM
RM
                                                                            RM
RM
                                                                                             8.50
7.90
3.00
1.00
4.50
2.90
                                                                            RM
RM
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                                            RM
RM
 Enter the type of meal (1-10): 8
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 1
                                                                              Price
 Meals
 1. Roti Canai
2. Cheese Naan
3. Nasi Briyani
                                                                                             2.00
7.90
12.90
8.50
6.50
7.90
3.00
1.00
4.50
2.90
                                                                            RM

    Mamak Mee Goreng
    Masalah Dosa

                                                                            RM
RM
5. Masatan Dosa
6. Soto
7. Teh Tarik
8. Air Suam
9. Leong Fun Susu
10. 100 Plus
                                                                            RM
RM
RM
 Enter the type of meal (1-10): 7
Enter quantity: 1
Add more? (Press 1) || Check Out (Press 2): 2
                                                               CHECK OUT
                                                                                                                                  RM 0.00
RM 0.00
RM 25.80
RM 0.00
RM 0.00
RM 0.00
RM 0.00
RM 0.00
RM 1.00
RM 0.00
RM 0.00
    Total quantity(Roti Canai)
                                                                                                             0
|0
|0
|0
|1
|1
|0
   Total quantity(Roti Canai)
Total quantity(Cheese Naan)
Total quantity(Nasi Briyani)
Total quantity(Masai Briyani)
Total quantity(Masalah Dosa)
Total quantity(Soto)
Total quantity(Teh Tarik)
Total quantity(Air Suam)
Total quantity(Leong Fun Susu)
Total quantity(100 Plus)
                                                                               = RM 29.80
   Total Service/Sales tax 6%
                                                                              = RM 1.79
   Total : RM 31.59
   Paid : RM 32
   Changes: RM 0.41
   Thank You and Please Come Again.
```

```
5<sup>th</sup> Test
```



	Inputs	Outputs
Date	Next Customer (Press 1) or Sales Report (Press 2)	Date
23/9/2023	2	23/9/2023
24/9/2023	2	24/9/2023
25/9/2023	2	25/9/2023
26/9/2023	2	26/9/2023
27/9/2023	2	27/9/2023

**<sup>3&</sup>lt;sup>rd</sup> Scenario** – Daily Report will display current date

### OUTPUT:

#### 1st Test

[ Daily Sales Report ]										
Item		Quar	ntity	Ι	RM					
Roti Canai			 8	 	16.00					
Cheese Naan			1	1	7.90					
Nasi Briyani			3	1	38.70					
Mee Goreng			1	1	8.50					
Masalah Dosa			1	1	6.50					
Soto			0	1	0.00					
Teh Tarik			0	1	0.00					
Air Suam			0	1	0.00					
Leong Fun			0	1	0.00					
100 Plus			0	I	0.00					
Total Quantity	•	14								
Total Amount			77.60							
Total SST										
Total Customers										

2<sup>nd</sup> Test

### 2023-09-24

[ Daily Sales Report ]

Item	I	Quantity	l	RM
Roti Canai	Ī	8	ı	16.00
Cheese Naan		Θ		0.00
Nasi Briyani		0		0.00
Mee Goreng		Θ		0.00
Masalah Dosa		Θ		0.00
Soto		Θ		0.00
Teh Tarik		0		0.00
Air Suam		Θ		0.00
Leong Fun		Θ		0.00
100 Plus		0		0.00

Total Quantity : 8

Total Amount : RM 16.00 Total SST : RM 0.96

Total Customers : 1

\_\_\_\_\_\_

#### 2023-09-25

# [ Daily Sales Report ]

Item	1	Quantity	<u> </u>	RM
Roti Canai	ı	5		10.00
Cheese Naan		1		7.90
Nasi Briyani		0		0.00
Mee Goreng		2		17.00
Masalah Dosa		0		0.00
Soto		0		0.00
Teh Tarik		0		0.00
Air Suam		1		1.00
Leong Fun Susu		0		0.00
100 Plus		0	I	0.00

Total Quantity : 9
Total Amount : RM 35.90
Total SST : RM 2.15

Total Customers : 2

4<sup>th</sup> Test

### 2023-09-26

# [ Daily Sales Report ]

Item	l	Quantity	<u> </u>	RM 
Roti Canai	ı	2	1	4.00
Cheese Naan		1		7.90
Nasi Briyani		0		0.00
Mee Goreng		1	ı	8.50
Masalah Dosa		0		0.00
Soto		0		0.00
Teh Tarik		0		0.00
Air Suam		0		0.00
Leong Fun Susu	ĺ	0		0.00
100 Plus	ĺ	0	Ī	0.00

Total Quantity : 4

Total Amount : RM 20.40 Total SST : RM 1.22

Total Customers : 1

\_\_\_\_\_

### 5<sup>th</sup> Test

### 2023-09-27

# [ Daily Sales Report ]

Item	ı	Quantity	<u> </u>	RM
Roti Canai	Ţ	1	ļ	2.00
Cheese Naan		2		15.80
Nasi Briyani		Θ		0.00
Mee Goreng		Θ		0.00
Masalah Dosa		Θ		0.00
Soto		Θ		0.00
Teh Tarik		1		3.00
Air Suam		0		0.00
Leong Fun Susu		1		4.50
100 Plus	Ī	1	Ι	2.90

Total Quantity : 6

Total Amount : RM 28.20 Total SST : RM 1.69

Total Customers : 2

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# **CONSTANTS AND VARIABLES**

# 8.1 CONSTANTS

o.i considints			
Data Type	Constant	Description	
Array	PRICE []	CE [] An array for meal prices	
Double	R	Represent the price of Roti Canai.	
Double	С	Represent the price of Cheese Naan.	
Double	N	Represent the price of Nasi Briyani.	
Double	M	Represent the price of Mamak Mee Goreng.	
Double	D	Represent the price of Masalah Dosa.	
Double	S	Represent the price of Soto.	
Double	Т	Represent the price of Teh Tarik.	
Double	A	Represent the price of Air Suam.	
Double	L	Represent the price of Leong Fun Susu.	
Double	P	Represent the price of 100 Plus	
Double	SST	Represent Sales and Services Tax	

# 8.2 Variables

Data Type	Variables	Description
Integer	type_of_meal	Integer variable represent the type of meal.
Integer	qty1 to qty10	Integer variables represent the quantities ordered for each meal.
Double	amt1 to amt10	Double variables represent the total amount for each meal.
Integer	total_roti_report	Integer variables representing the total sales of roti canai
Integer	total_cheese_report	Integer variables representing the total sales of cheese naan
Integer	total_nasi_report	Integer variables representing the total sales of nasi briyani
Integer	total_mamak_report	Integer variables representing the total sales of mamak mee goreng
Integer	total_dosa_report	Integer variables representing the total sales of masalah dosa
Integer	total_soto_report	Represent the Integer variables representing the total sales of soto
Integer	total_teh_report	Integer variables representing the total sales of teh tarik
Integer	total_air_report	Integer variables representing the total sales of air suam
Integer	total_leong_report	Integer variables representing the total sales of leong fun susu
Integer	total_100plus_report	Integer variables representing the total sales of 100plus
Integer	total_roti	Integer variables representing the total quantity of roti canai
Integer	total_cheese	Integer variables representing the total quantity of cheese naan
Integer	total_nasi	Integer variables representing the total quantity of nasi briyani
Integer	total_mamak	Integer variables representing the total quantity of mamak mee goreng
Integer	total_dosa	Integer variables representing the total quantity of masalah dosa
Integer	total_soto	Integer variables representing the total quantity of soto
Integer	total_teh	Integer variables representing the total quantity of teh tarik
Integer	total_air	Integer variables representing the total quantity of air suam
Integer	total_leong	Integer variables representing the total quantity of leong fun susu
Integer	total_100plus	Integer variables representing the total quantity of 100plus
Integer	choice and choice2	Integer variables representing user choices.
Integer	customer	Integer variable representing the customer count.

Double	cash	Double variable representing the payment amount.
typedef	t	to store the current time.
tm	tmObj	to store the date and time components.
Char (array)	date	a character array of size 11 used to store the formatted date string.