



# **TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE**

## **FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY**

Bachelor of Science in Management Mathematics with Computing

Year 3 Semester 1

RMM (Tutorial Group 3)

BAMS3043 Mathematical and Statistical Software

### **Assignment 1**

<b>Name</b>	<b>Group</b>	<b>Student ID</b>
1. Lim Hui Jing	3	20WMR09183

**Lecturer / Tutor's name: Dr. Tan Yan Bin**

## Sheet 1: Sort Management

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Item of Expenditure													
2	Category	Meal	Transportation	DailySupplies	Entertainment	Fashion	Beauty	Health	FixedCharge	Study	SocialSpending	Investment	Repayment	OtherExpenses
3	subitem	Breakfast	Bus	Daily Necessities	Fitness	Clothes	Hairdressing	Medical Treatment	Rental	Course Fee	Gift	Stock	PTPTN	Donation
4		Lunch	LRT	Kitchen Supplies	Movie	Shoes	Cosmetics	Medicine	Utilities	Books	Stand Treat	Fund	Car Loan	Pet
5		Dinner	KTM	Household Supplies	Game	Hats & Socks	Skin Care	Health Checkup	Phone Bill	Other	Other	Parargon	House Loan	Shopping
6		Supper	Flight	Bathroom Ware	Ticket	Accessories	Other	Dental Health	Network Fee			Other	Other	Online Shopping
7		Fruits	Grad	Other	Hotel	Other		Insurance	Parents					Loss
8		Snacks	Fuel Charge		Travel			Other	Other					Transfer
9		Beverages	Other		Other									Other
10		Dine Together												
11	Other													
12														
13														
14														
15														
16														
17														
18														
19														
		Record of Daily	Month	Year	Sort Management									

1

2

Study

SocialSpending

Investment

Repayment

OtherExpenses

3

Course Fee

Gift

Stock

PTPTN

Donation

4

Books

Stand Treat

Fund

Car Loan

Pet

5

Other

Other

Parergon

House Loan

Shopping

6

Other

Other

Online Shopping

7

Loss

8

Transfer

9

Other

10

11

12

13

14

15

16

17

Item of Income

Category

Salary

Investment

OtherIncome

Subitem

Salary

Stock

Bonus

Fund

Refund

Parergon

Transfer

Other

Other

Account Management

Account

Initial Value

Cash

RM 200.00

PublicBank

RM 3,000.00

Maybank

RM 1,000.00

Grad

RM 50.00

TnG

RM 150.00

Shopee

RM 180.00

Sort Management

Daily Record

Month

Year

First, users need to go to sort management and in the Account Management Table to set their initial account value inorder to keep track of their account balance. In the sheet, it also showed all the items of expenditures and items of income. There already are some items inside the sheet, but users still can add on other items that they want to.

## Sheet 2: Daily Record

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U			
1	2021					Statement of Expenditures								Statement of Income									
2	Sep					Month	Date	Category	Subitem	Account	Amount	Detail	Month	Date	Category	Subitem	Account	Amount	Detail				
3						July	7/1/2021	Meal	Dinner	Cash	RM 15.00	Meat mee	September	9/2/2021	Salary	Salary	PublicBank	*****					
4						July	7/1/2021	FixedCharge	Rental	PublicBank	RM 225.00		January										
5						July	7/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00		January										
6						July	7/5/2021	DailySupplier	Bathroom Ware	Cash	RM 33.00	Water	January										
7						July	7/5/2021	Transportation	Gas	Gas	RM 16.00		January										
8						July	7/5/2021	FixedCharge	Phone Bill	Maybank	RM 5.00		January										
9						Today's Spending	RM	-			July	7/7/2021	Meal	Snack	Cash	RM 10.00	Icecream	January					
10						Month's Spending	RM	\$21.00			July	7/11/2021	Meal	Breakfast	Maybank	RM 11.00	Foodpanda	January					
11						Budget by Category					July	7/20/2021	FixedCharge	Phone Bill	Maybank	RM 5.00		January					
12	Category	Budget	Balance			July	7/20/2021	Meal	Breakfast	Maybank	RM 10.00	Foodpanda	January										
13	Meal	RM 400.00	RM 375.00			August	8/1/2021	FixedCharge	Rental	PublicBank	RM 225.00		January										
14	Transportation	RM 500.00	RM 415.00			August	8/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00		January										
15	DailySupplier	RM 200.00	RM 142.20			August	8/1/2021	Meal	Breakfast	Cash	RM 10.00		January										
16	Entertainment	RM 250.00	RM 132.00			August	8/2/2021	Meal	Breakfast	Cash	RM 15.00		January										
17	Fashion	RM 300.00	RM 200.00			August	8/7/2021	Fashion	Shoes	Shopee	RM 17.00		January										
18	Beauty	RM 300.00	RM 200.00			August	8/9/2021	Beauty	Skin Care	Maybank	RM 42.00	Mark	January										
19	Health	RM 200.00	RM 200.00			August	8/24/2021	Fashion	Shoes	PublicBank	RM 140.00	Integrasi	January										
20	RM					September	9/1/2021	FixedCharge	Rental	PublicBank	RM 225.00		January										
21	RM	-				September	9/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00		January										
22	RM	-				September	9/1/2021	Meal	Breakfast	Maybank	RM 22.00	Foodpanda	January										
23	RM	-				September	9/2/2021	Study	Other	PublicBank	RM 110.00	Mustpaper	January										
24	RM	-				September	9/2/2021	SocialSpending	Gift	Maybank	RM 50.00		January										
25	RM	-				September	9/8/2021	Transportation	Gas	Gas	RM 15.00		January										
26	RM	-				September	9/10/2021	Entertainment	Movie	Cash	RM 11.00		January										
27	RM	-				September	9/20/2021	DailySupplier	Household Supplier	Td	RM 56.00		January										
28	total Bdg	Budget	Balance			January							January										
29	RM	2,450.00	RM 2,338.20			January							January										
30						January							January										
31						January							January										
32	Balance of Account					January							January										
33	Account	Account Balance				January							January										
34	Cash	RM 915.00				January							January										
35	PublicBank	RM 3,000.00				January							January										
36	Maybank	RM 123.00				January							January										
37	Gas	RM 19.00				January							January										
38	Td	RM 93.20				January							January										
39	Shopee	RM 163.00				January							January										
40	RM	-				January							January										
41	RM	-				January							January										
42	RM	-				January							January										
43	Total Balance	RM 4,205.00				January							January										
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# 2021

## Sep

Today's Spending	RM	-
Month's Spending	RM	521.80

### Budget by Category

Category	Budget		Balance	
Meal	RM	600.00	RM	578.00
Transportation	RM	500.00	RM	485.00
DailySupplies	RM	200.00	RM	143.20
Entertainment	RM	250.00	RM	232.00
Fashion	RM	300.00	RM	300.00
Beauty	RM	300.00	RM	300.00
Health	RM	300.00	RM	300.00
			RM	-

Total Budget	Budget		Balance	
	RM	2,450.00	RM	2,338.20

### Balance of Account

Account	Account Balance	
Cash	RM	101.80
PublicBank	RM	3,000.00
Maybank	RM	828.00
Grad	RM	19.00
TnG	RM	93.20
Shopee	RM	163.00
	RM	-
	RM	-
	RM	-
Total Balance	RM	4,205.00

[Sort Management](#)
[Daily Record](#)
[Month](#)
[Year](#)

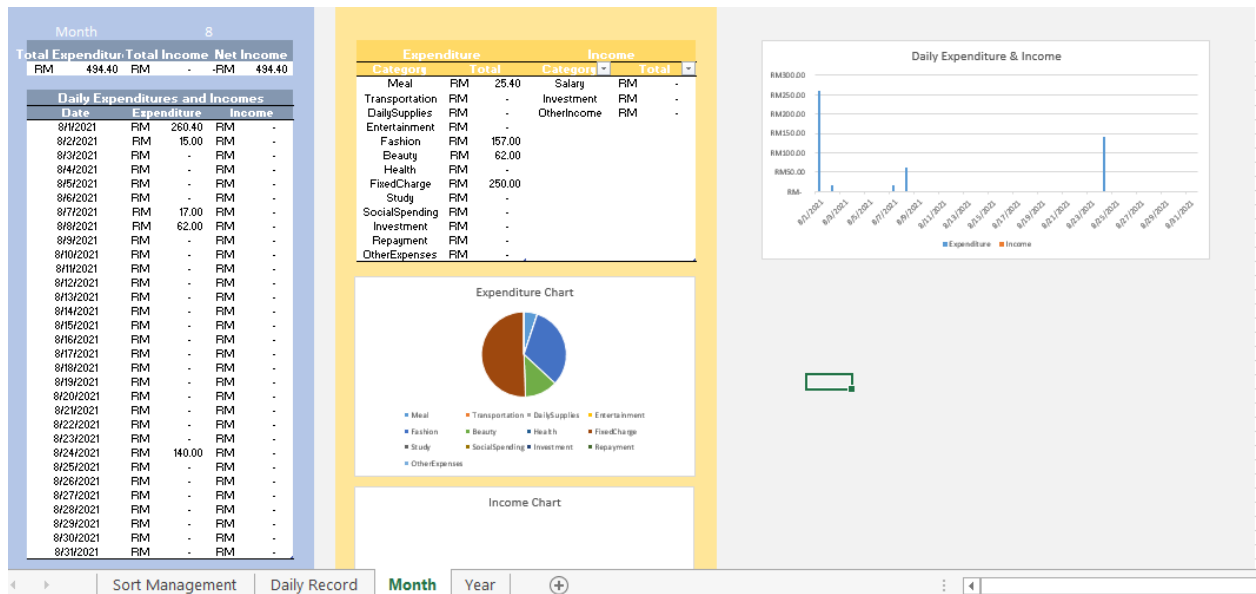
Users need to enter their budget for each category that they want to set for. Then it will display the balance of the budget. The following table shows the balance of every account.

Statement of Expenditures						
Month	Date	Category	Subitem	Account	Amount	Detail
July	7/1/2021	Meal	Dinner	Cash	RM 11.80	Meet mee
July	7/1/2021	FixedCharge	Rental	PublicBank	RM 225.00	
July	7/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00	
July	7/5/2021	DailySupplies	Bathroom Ware	Cash	RM 33.00	Watsons
July	7/5/2021	Transportation	Grad	Grad	RM 16.00	
July	7/5/2021	FixedCharge	Phone Bill	Maybank	RM 5.00	
July	7/7/2021	Meal	Snacks	Cash	RM 10.00	icecream
July	7/18/2021	Meal	Breakfast	Maybank	RM 18.00	foodpanda
July	7/20/2021	FixedCharge	Phone Bill	Maybank	RM 5.00	
July	7/20/2021	Meal	Breakfast	Maybank	RM 10.00	foodpanda
August	8/1/2021	FixedCharge	Rental	PublicBank	RM 225.00	
August	8/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00	
August	8/1/2021	Meal	Breakfast	Cash	RM 10.40	
August	8/2/2021	Meal	Breakfast	Cash	RM 15.00	
August	8/7/2021	Fashion	Clothes	Shopee	RM 17.00	
August	8/8/2021	Beauty	Skin Care	Maybank	RM 62.00	Mask
August	8/24/2021	Fashion	Clothes	PublicBank	RM 140.00	instagram shop
September	9/1/2021	FixedCharge	Rental	PublicBank	RM 225.00	
September	9/1/2021	FixedCharge	Utilities	PublicBank	RM 25.00	
September	9/1/2021	Meal	Breakfast	Maybank	RM 22.00	foodpanda
<div> <div>Daily Record</div> <div> <div>Month</div> <div>Year</div> <div>⊕</div> </div> <div> <div>:</div> <div>◀</div> <div></div> </div> </div>						

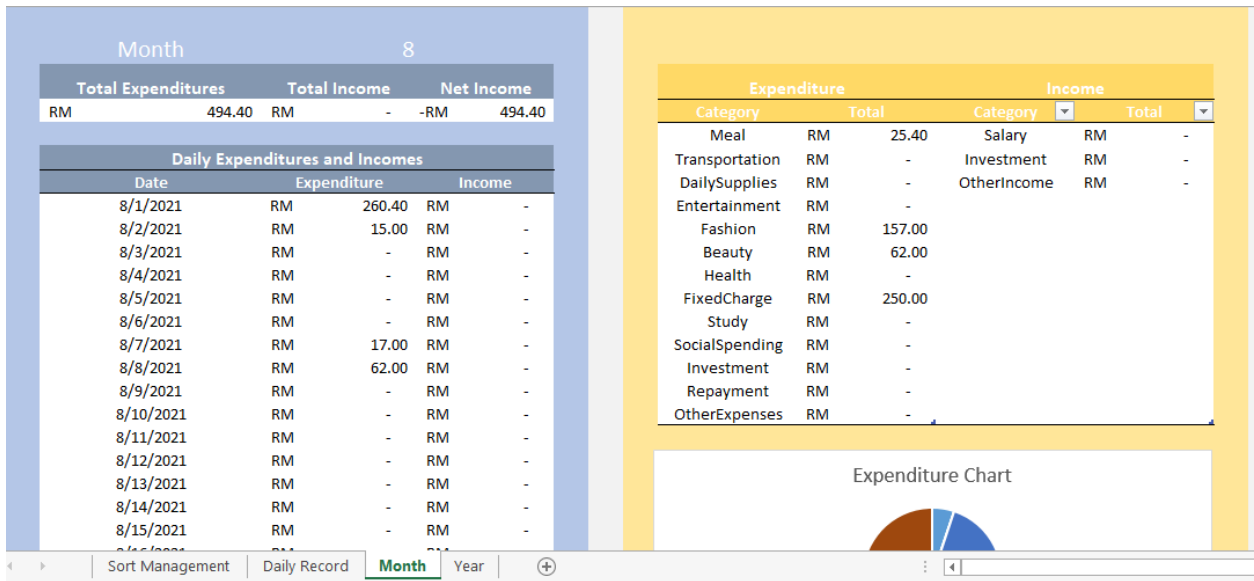
This table is for users to enter their expenditure. First, users need to enter the date by using month/day/year format. Then the month column will automatically display the month. Then, users can select the category and subitem of the expenses and which account that the money debit follows by the amount of expenses. Users can also add the detail of the expense in the detail column.



## Sheet 3: Month

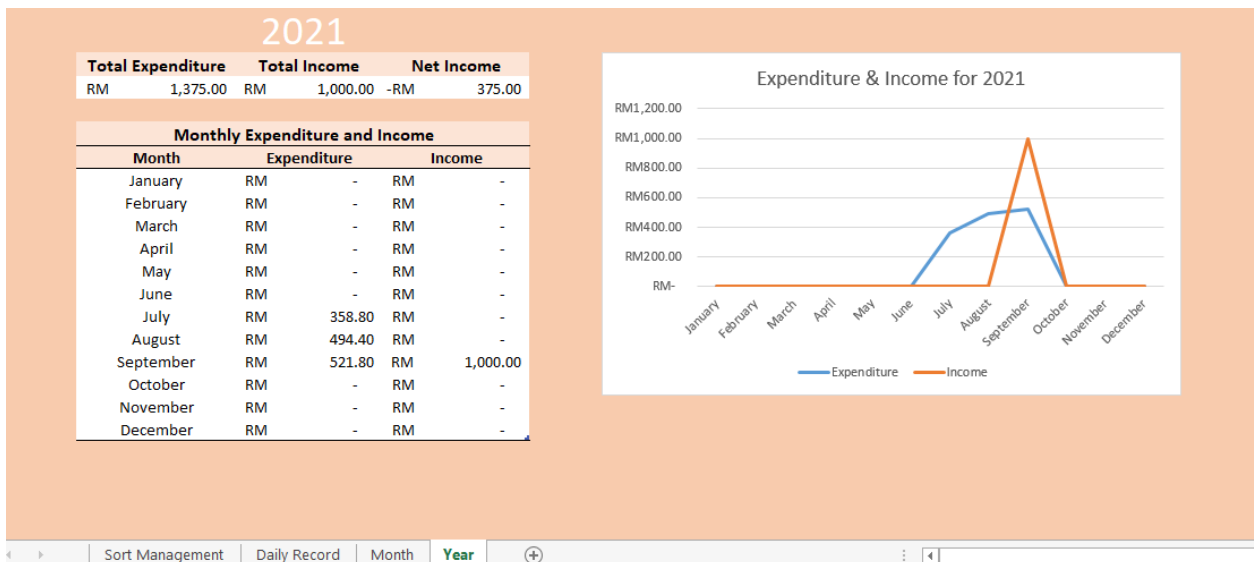


This sheet allows users to keep track of the monthly expenses and income. The blue colour table shows the total expenditure, total income and the net income of the month. The table below also shows the total expenditure and income by date. The yellow colour table shows the expenditure and income by category. This sheet also contains the expenditure chart, income chart and daily expenditure and income chart.



For this sheet, users only need to select the month that they want to keep track. Then it will automatically generate the figures and charts.

#### Sheet 4: Year



This sheet will show the total expenditure, total income and net income by year. The following table shows the expenditure and income by monthly. Users do not need to enter anything in this sheet. It will automatically generate the figure and chart.