



**COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS,
UNIVERSITI TEKNOLOGI MARA,
CAWANGAN KEDAH**

DIPLOMA IN LIBRARY INFORMATICS (IM144)

PROGRAMMING FOR LIBRARIES (IML208)

“MELON MUSIC FESTIVAL TICKETING”

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DATE OF SUBMISSION:

4TH JANUARY 2024

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TABLE OF CONTENTS

ACKNOWLEDGEMENTS	i
1.0 INTRODUCTION.....	1
2.0 FLOWCHART	2
3.0 SNAPSHOT OF GUI	3-4
4.0 SNAPSHOT OF CODE	5-6
5.0 SNAPSHOT OF DATABASE	7
6.0 CONCLUSION	8



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1.0 INTRODUCTION

In this assignment, I prepared a coding for Melon Music Festival Ticketing system that will be held for 3 days starting from 24th April until 26th April 2024. The lineup for each day is different and the total artists that will be performed is 60 whereby each day the lineup consists of 20 different artists. To enter data in Melon Music Festival Ticketing, user required to fill in their full name, pack and choose which stage to purchase comprises of Sky Rocket Melon Stage, Sugar Kiss Melon Stage and Honey Globe Melon Stage. Each stage has two types of ticket which are VIP and General Admission and the price for VIP ticket is RM550 meanwhile the price for General Admission ticket is RM350. In order to calculate total price, user need to choose which stages to purchase and the number of packs. The formula to get total price is $\text{sum}(\text{price per ticket} [\text{ticket type}] * \text{pack for in selected stages})$. Once the calculation is done, the total prices will be shown in output along with name, selected stages, ticket type and pack user have entered in GUI.

2.0 FLOWCHART

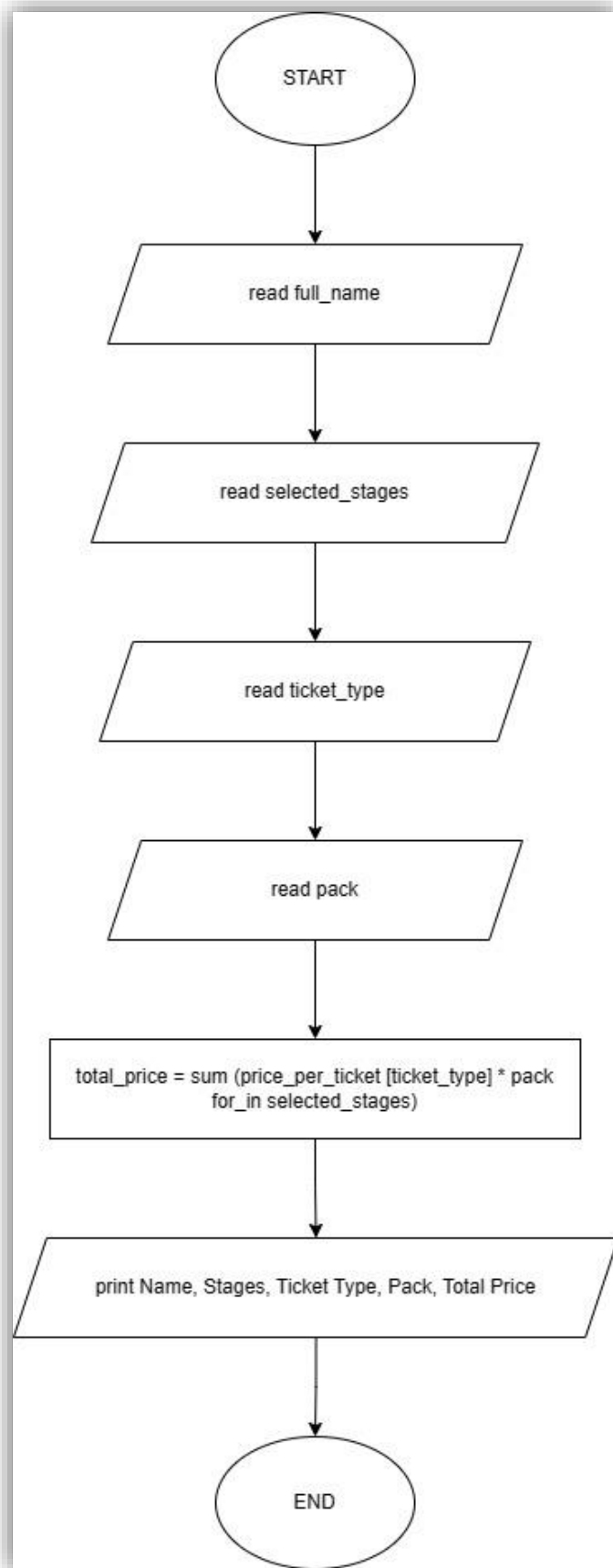


Figure 1: MMF_Flowchart

3.0 SNAPSHOT OF GUI

Melon Music Festival

Melon Music Festival Ticketing

Sarah Salola, Viollete Wautier, The Toys, Zom Marie, Jaokhun
Prices:
VIP:RM550 General Admission:RM350

Honey Globe Melon Stage
Date: 26th April 2024
Lineup:
9by9th, 4EVE, Sizzy, DIDIXDADA, LAZ1,
Trinity, BILLKINxPP KRIT, Atlas, 4Miz, LYKN,
JAYLERRxICE PARIS, Perses, Proxie, Bus, PiXXiE,
GEMINIXFOURTH, New Country, Bamm, Pretzele, Mxfruit
Prices:
VIP:RM550 General Admission:RM350

Full Name:

Select Stages

☐ Sky Rocket Melon Stage
☐ Sugar Kiss Melon Stage
☐ Honey Globe Melon Stage

Select Your Ticket Type

Packs:

Total

Total Prices

Figure 2: snapshot of GUI

Melon Music Festival

Melon Music Festival Ticketing

Stages & Prices:

Sky Rocket Melon Stage
Date: 24th April 2024
Lineup:
Tilly Birds, Mirrr, Scrubb, Only Monday, Safeplanet, Polycat, Three Man Down, Cocktail, MEAN, Getsunova, Fellow Fellow, Slapkiss, HYBS, Anatomy Rabbit, Dept, Pop Pongkool, Qler, TaitosmithH, Yented, Paper Planes
Prices:
VIP:RM550 General Admission:RM350

Sugar Kiss Melon Stage
Date: 25th April 2024
Lineup:
Morvasu, Pearwah, Serious Bacon, Ploychompoo, Sarah Salola, Nont Tanont, Jeff Satur, Timethai, Autta, Jaonaay, ALLY, Nanon, Meyou, Ink Waruntorn, Bowkylion, Luss, Viollete Wautier, The Toys, Zom Marie, Jaokhun

Full Name:

Select Stages

☒ Sky Rocket Melon Stage

☒ Sugar Kiss Melon Stage

☒ Honey Globe Melon Stage

VIP

Packs:

Total

Total Prices

Name: Exlin Wu
Stages: Sky Rocket Melon Stage, Sugar Kiss Melon Stage, Honey Globe Melon Stage
Ticket type: VIP
Pack: 1
Total Price: RM1650

Figure 3: snapshot of GUI

4.0 SNAPSHOT OF CODE

```
melonmusicfestpy > collect_data
52
53 # Your Main window, You need to have the title, geometry (MUST)
54 root = tk.Tk()
55 root.title("Melon Music Festival")
56 root.geometry('700x710')
57
58 # Page Title
59 label = tk.Label(root, text='Melon Music Festival Ticketing', font=("Segoe UI Black",14, "bold"))
60 label.pack(ipadx=5, ipady=5)
61
62 # Prices List by using textbox
63 prices_text = tk.Text(root, height=15, width=100, font= ("Perpetua", 11))
64 prices_text.pack(pady=5)
65
66 # The defined list by using pricebox
67 prices_text.insert(tk.END, "Stages & Prices:\n\n")
68 prices_text.insert(tk.END, "Sky Rocket Melon Stage \nDate: 24th April 2024 \nLineup:\nNilly Birds, Mirrr, Scrubb, Only Monday, Safeplanet, Polycat, Three Man Down, Cocktail, MEAN, Getsunova, \n")
69 prices_text.insert(tk.END, "Sugar Kiss Melon Stage \nDate: 25th April 2024 \nLineup: \nMorvasu, Pearwah, Serious Bacon, Ploychompoo, Sarah Salola, Nont Tanont, Jeff Satur, Timethai, Autta, Jaona")
70 prices_text.insert(tk.END, "Honey Globe Melon Stage \nDate: 26th April 2024 \nLineup: \n9by9th, 4EVE, Sizzy, DIDIxDADA, New Country, Trinity, BILLKINxPP KRIT, Atlas, 4Miz, LYKN, \nJAYLERRxICE P")
71 prices_text.configure(state='disabled')
72
73 # Name Entry, Label and user can insert data thru entry
74 full_name_label = tk.Label(root, text="Full Name:")
75 full_name_label.pack()
76 full_name_entry = tk.Entry(root)
77 full_name_entry.pack()
78
79 # Stage Type Checkbox (Label)
80 packs_label = tk.Label(root, text="Select Stages")
81 packs_label.pack()
82
83 # Stage Type Checkboxes
84 stage_type_var=tk.Label(root)
85 stage_type_var_Sky_Rocket_Melon_Stage = tk.BooleanVar(root)
86 stage_type_var_Sugar_Kiss_Melon_Stage = tk.BooleanVar(root)
87 stage_type_var_Honey_Globe_Melon_Stage = tk.BooleanVar(root)
88
89 Sky_Rocket_Melon_Stage_checkbox = tk.Checkbutton(root, text="Sky Rocket Melon Stage", variable=stage_type_var_Sky_Rocket_Melon_Stage)
90 Sky_Rocket_Melon_Stage_checkbox.pack()
91
92 Sugar_Kiss_Melon_Stage_checkbox = tk.Checkbutton(root, text="Sugar Kiss Melon Stage", variable=stage_type_var_Sugar_Kiss_Melon_Stage)
93 Sugar_Kiss_Melon_Stage_checkbox.pack()
94
95 Honey_Globe_Melon_Stage_checkbox = tk.Checkbutton(root, text="Honey Globe Melon Stage", variable=stage_type_var_Honey_Globe_Melon_Stage)
96 Honey_Globe_Melon_Stage_checkbox.pack()
97
98
```

Figure 5: snapshot of code

```
melonmusicfestpy > collect_data
1 import tkinter as tk
2 import mysql.connector
3
4 # Connect to your MySQL database
5 mydb = mysql.connector.connect(
6     host="localhost",
7     user="root",
8     password="",
9     database="melon_music_festival"
10 )
11
12 # Create a cursor object to execute SQL queries
13 mycursor = mydb.cursor()
14
15 # Function to handle the calculation and database saving
16 def collect_data():
17     # List to store selected stages
18     selected_stages = []
19
20     # Check which stages are selected
21     if stage_type_var_Sky_Rocket_Melon_Stage.get():
22         selected_stages.append("Sky Rocket Melon Stage")
23     if stage_type_var_Sugar_Kiss_Melon_Stage.get():
24         selected_stages.append("Sugar Kiss Melon Stage")
25     if stage_type_var_Honey_Globe_Melon_Stage.get():
26         selected_stages.append("Honey Globe Melon Stage")
27
28     stage_type = selected_stages
29     ticket_type = ticket_type_var.get()
30     pack = int(pack_entry.get())
31     full_name = str(full_name_entry.get())
32
33     # Calculate the total price. This will be derived from your selection (stage_type, ticket_type, pack).
34     price_per_ticket = {
35         "vip": 550,
36         "General Admission": 350
37     }
38
39     # Calculate the total price for multiple selected stages
40     total_price = sum(price_per_ticket[ticket_type] * pack for _ in selected_stages)
41
42     # To insert your Data to your database
43     sql = "INSERT INTO mmf_stage (full_name, stage_type, ticket_type, pack, price) VALUES (%s, %s, %s, %s, %s)"
44     val = (full_name, ", ".join(selected_stages), ticket_type, pack, total_price)
45     mycursor.execute(sql, val)
46     mydb.commit()
47
48     # To Print back The output
49     output_label.config(text=f"Name: {full_name} \nStages: {'', '.join(selected_stages)}\n Ticket type: {ticket_type}\n Pack: {pack}\n Total Price: RM{total_price}")
50
```

Figure 4: snapshot of code

```

melonmusicfest.py > ...
99 # Ticket Type Dropdown
100 ticket_type_var = tk.StringVar(root)
101 ticket_type_var.set("Select Your Ticket Type") # Default value before your selection
102 trip_dropdown = tk.OptionMenu(root, ticket_type_var, "VIP", "General Admission")
103 trip_dropdown.pack(pady=5)
104
105 # Packs Entry. Label and user can insert data thru entry
106 packs_label = tk.Label(root, text="Packs:")
107 packs_label.pack()
108 pack_entry = tk.Entry(root)
109 pack_entry.pack()
110
111 # Save Button
112 save_button = tk.Button(root, text="Total", command=collect_data)
113 save_button.pack(pady=5)
114
115
116 # Output Label & result
117 label = tk.Label(root, text='Total Prices', font=("Sylfaen",12))
118 label.pack(ipadx=10, ipady=5)
119 output_label = tk.Label(root, text="")
120 output_label.pack()
121
122 root.mainloop()

```

Figure 6: snapshot of code

5.0 SNAPSHOT OF DATABASE


















<div>  Table structure <div>  Relation view </div> </div>									
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	full_name	varchar(100)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 2	stage_type	varchar(100)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 3	ticket_type	varchar(100)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/> 4	pack	int(3)			No	None			 Change  Drop  More
<input type="checkbox"/> 5	price	float			No	None			 Change  Drop  More

Figure 7: snapshot of database

full_name	stage_type	ticket_type	pack	price
Exlin Wu	Sky Rocket Melon Stage, Sugar Kiss Melon Stage, Ho...	VIP	1	1650
Fai	Honey Globe Melon Stage	VIP	1	550
Balqis Nabila	Honey Globe Melon Stage	VIP	1	550
Suri	Sky Rocket Melon Stage	VIP	1	550
Moo	Honey Globe Melon Stage	VIP	1	550
Raja Farah	Sugar Kiss Melon Stage	General Admission	2	700
Fareth Haikal	Sky Rocket Melon Stage	VIP	3	1650
Lee Xi Jia	Sugar Kiss Melon Stage, Honey Globe Melon Stage	General Admission	3	2100
Najwa Amanina	Honey Globe Melon Stage	VIP	1	550
Aziz Harun	Sugar Kiss Melon Stage	General Admission	2	700

Figure 8:snapshot of database

6.0 CONCLUSION

After completing this assignment, I have come to conclusion that in order to make an organized coding, we need to plan the whole system in advance and create a flowchart to get a clearer vision of how the code will come out. I also learned how to connect MySQL, tkinter and python together to work on creating the database. Other than that, there is many ways to make a coding as the operation is not restricted as long as the output will come out. Before working on code, I created database on localhost and connected it to python where the output will be shown on the table of database I have created. It is easy to create the database as we only need entities to create tables and attributes to add in the table, under entities. We also can set the restrictions for user to follow to avoid incorrect data filled in the database. It is to ensure the database not overload with false data or redundancy. Furthermore, the assignment required to create formulation with attributed created. This help me in creative thinking to create a formula for coding I created. To conclude, this assignment let student explore more on unseen python's rules and apply it with real life situation to create new database.