COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA (UITM), KAMPUS SUNGAI PETANI

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

ASSIGNMENT: INDIVIDUAL ASSIGNMENT

PREPARED BY:

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KCDIM1443B

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SUBMISSION DATE: **WEEK 12**

ASSIGNMENT: INDIVIDUAL ASSIGNMENT

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ACKNOWLEDGMENT

First and foremost, I want to give thanks and gratitude to the Almighty God for giving me the courage to do my assignment with His favor. I would like to extend my sincere gratitude to everyone who gave me the chance to finish this assignment. With the time allotted in the work plan, I was able to do this job in the end.

In addition, I would like to thank Sir Airul Shazwan Bin Norshahimi for helping me understand the principles and for teaching how to do this project effectively. I’m very appreciative to my classmate for constantly offering me guidance while creating tasks and providing me with more information. I was able to add ideas to my assignment with their assistance. My family is also the most significant person in my life because they constantly encourage me to finish my task.

Last but not least, I would like express my gratitude to University Teknologi Mara (UiTM) campus Sungai Petani for providing me with the opportunity to write this project using the proper format.

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1.0 INTRODUCTION

My task for this assignment is to develop and create a basic computer interface that consists of CR (Create and Read). The "Purchase Special Class Ticket Interface" that I develop consists of two operations which is, create and read.

Interface

Customers who wish to purchase a ticket to join the "Special Class" can do so through this portal. Class Chess, Class Music, and Class Art are the three categories that make up this "Special Class". Students of all ages are welcome to enroll these classes. Initially, the customer must input their name, phone number, address, age, preferred class type, ticket value, and click "calculate total."

Calculation

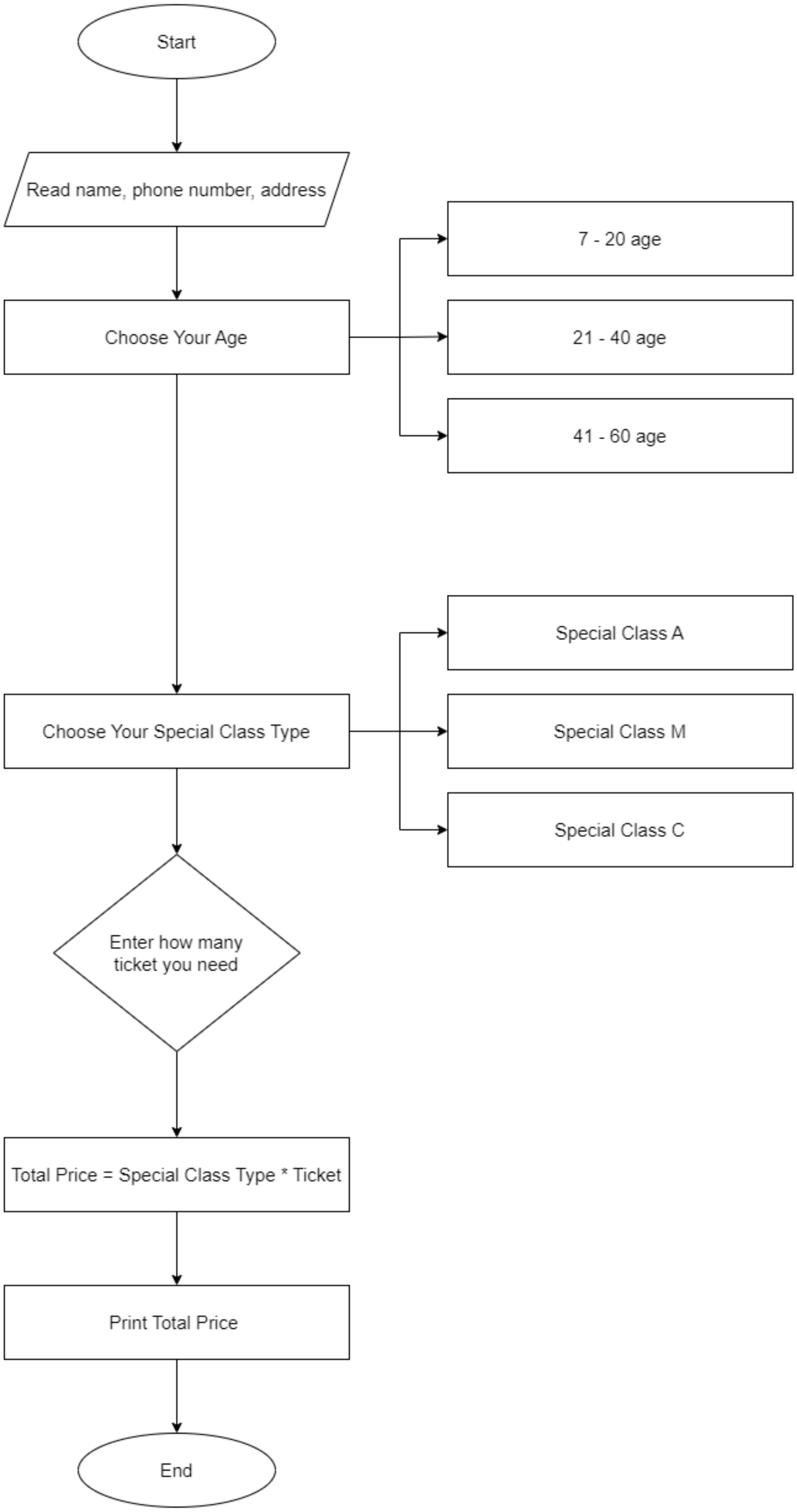
Multiplication is the computation I performed using this interface. The customer must input the number of the ticket they wish to purchase after selecting their preferred class type. I have multiplied "special class type" and "ticket" in this particular multiplication operation. After the process of multiplication, the final price will be determined. The calculating process cannot determine the total cost if the consumer does not enter the "ticket" value.

Flowchart

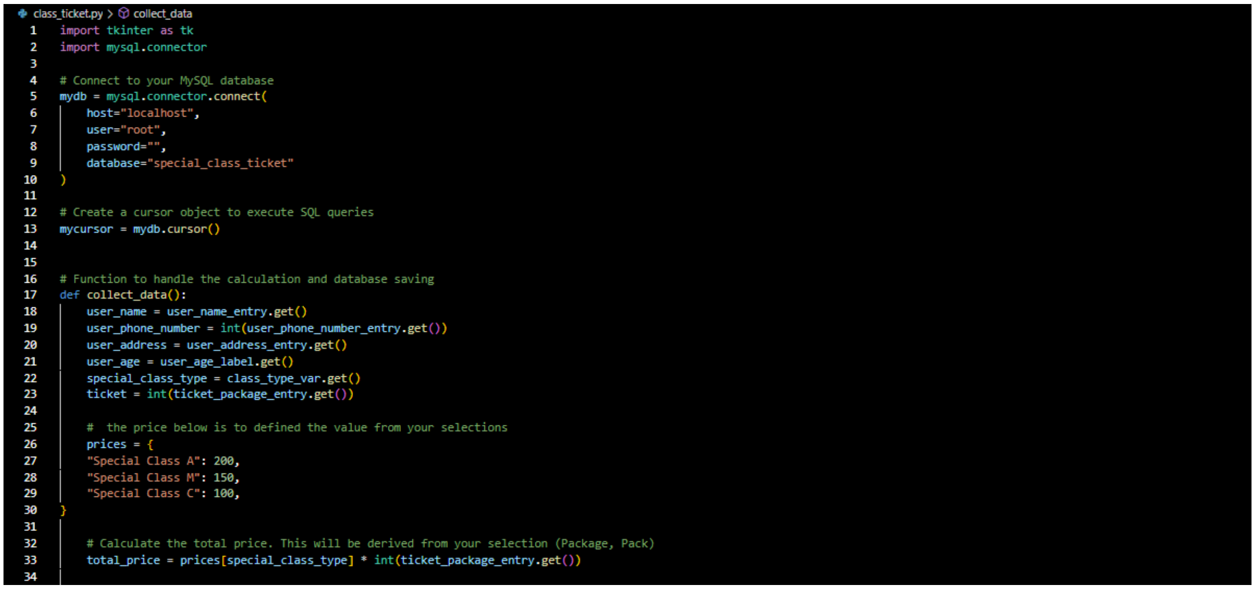
I utilise a variety of symbols in my flowcharts, including start, stop, input, output, process, decision, and flow direction. To allow the consumer to read what the interface wants them to enter, I put the start symbol first, then the input and wrote "Read name, phone number, address".

The customer can then select their age and class to move on to the next step by using the process symbols for "Age" and "Special Class Type" that I have used. In addition, I utilise the choice symbol "Ticket" to ask customers how many tickets they would want to buy. It is possible for an individual to purchase multiple tickets, as they may choose to gift tickets to their friends. I then calculate the "Total Price" and "Print Total Price" using the process symbol once more. Finally, I use the end symbol to let the customer know how much the total cost will be.

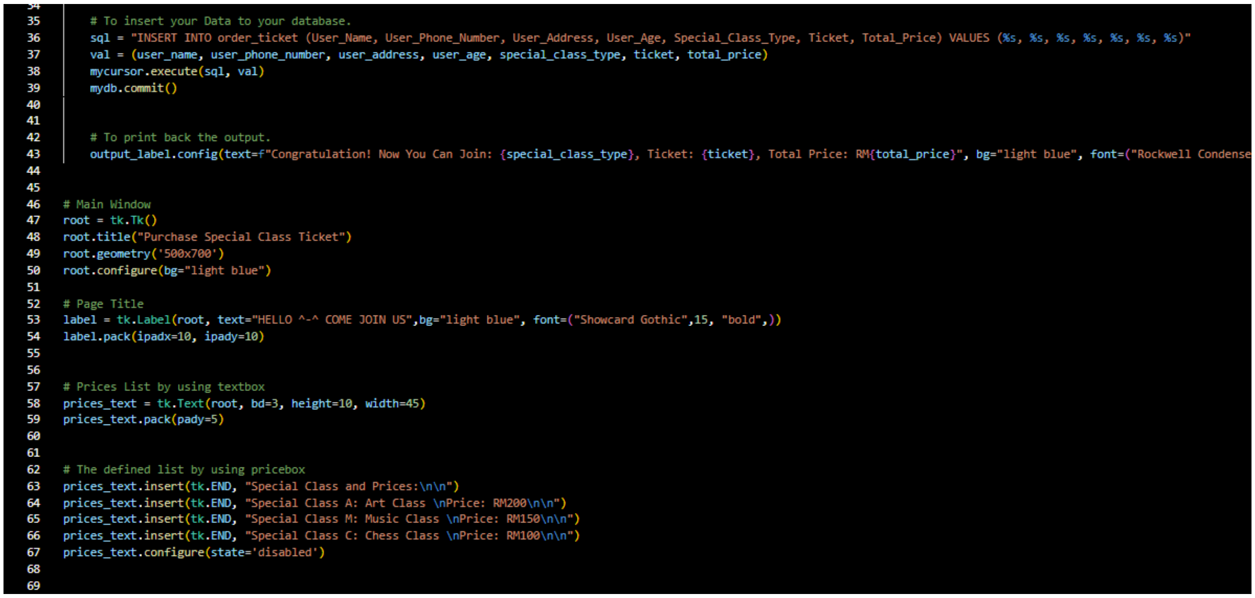
2.0 FLOWCHART


Start
Read name, phone number, address
Choose Your Age
7 - 20 age
21 - 40 age
41 - 60 age
Choose Your Special Class Type
Special Class A
Special Class M
Special Class C
Enter how many ticket you need
Total Price = Special Class Type * Ticket
Print Total Price
End

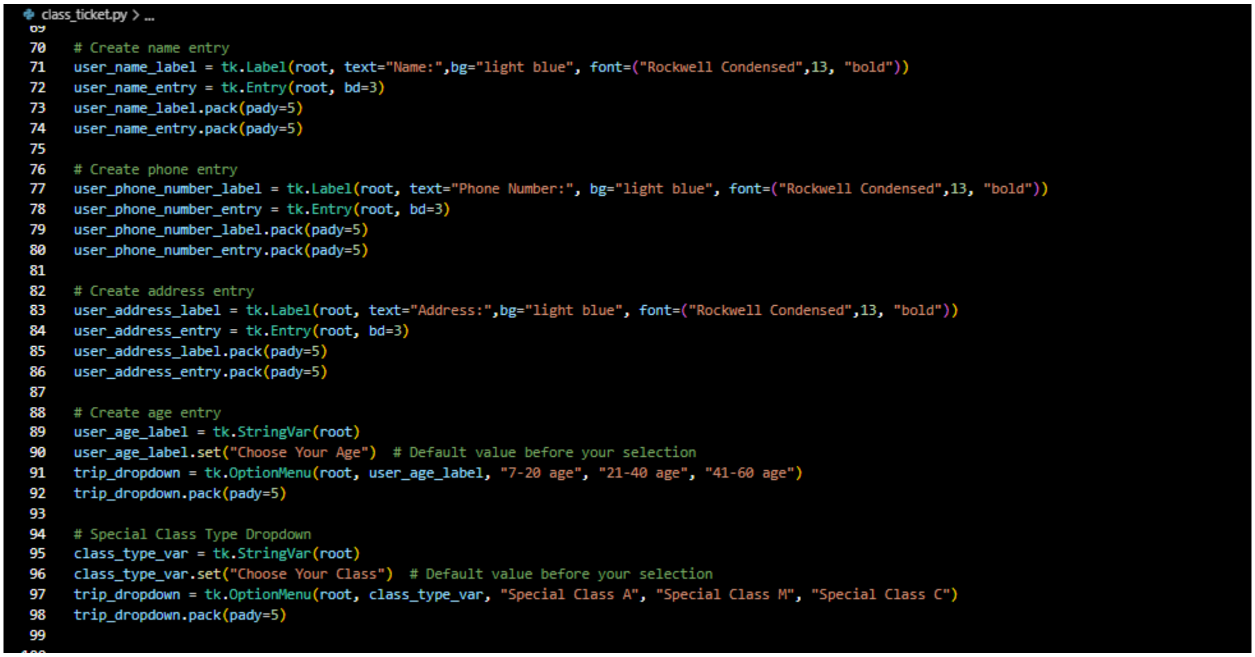
3.0 PYTHON CODE



```python
import tkinter as tk
import mysql.connector

# Connect to your MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="special_class_ticket"
)

# Create a cursor object to execute SQL queries
mycursor = mydb.cursor()


# Function to handle the calculation and database saving
def collect_data():
    user_name = user_name_entry.get()
    user_phone_number = int(user_phone_number_entry.get())
    user_address = user_address_entry.get()
    user_age = user_age_label.get()
    special_class_type = class_type_var.get()
    ticket = int(ticket_package_entry.get())

    #  the price below is to defined the value from your selections
    prices = {
    "Special Class A": 200,
    "Special Class M": 150,
    "Special Class C": 100,
}

    # Calculate the total price. This will be derived from your selection (Package, Pack)
    total_price = prices[special_class_type] * int(ticket_package_entry.get())

```

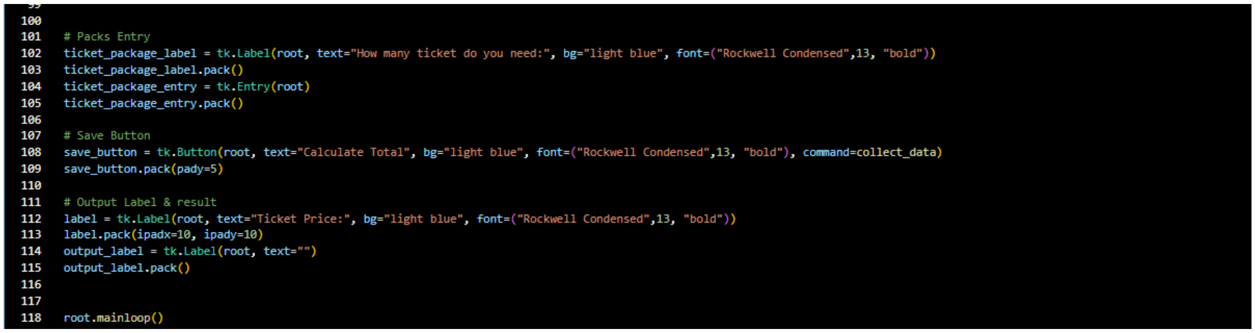


```python
    # To insert your Data to your database.
    sql = "INSERT INTO order_ticket (User_Name, User_Phone_Number, User_Address, User_Age, Special_Class_Type, Ticket, Total_Price) VALUES (%s, %s, %s, %s, %s, %s, %s)"
    val = (user_name, user_phone_number, user_address, user_age, special_class_type, ticket, total_price)
    mycursor.execute(sql, val)
    mydb.commit()


    # To print back the output.
    output_label.config(text=f"Congratulation! Now You Can Join: {special_class_type}, Ticket: {ticket}, Total Price: RM{total_price}", bg="light blue", font=("Rockwell Condense


# Main Window
root = tk.Tk()
root.title("Purchase Special Class Ticket")
root.geometry('500x700')
root.configure(bg="light blue")

# Page Title
label = tk.Label(root, text="HELLO ^-^ COME JOIN US",bg="light blue", font=("Showcard Gothic",15, "bold",))
label.pack(ipadx=10, ipady=10)


# Prices List by using textbox
prices_text = tk.Text(root, bd=3, height=10, width=45)
prices_text.pack(pady=5)


# The defined list by using pricebox
prices_text.insert(tk.END, "Special Class and Prices:\n\n")
prices_text.insert(tk.END, "Special Class A: Art Class \nPrice: RM200\n\n")
prices_text.insert(tk.END, "Special Class M: Music Class \nPrice: RM150\n\n")
prices_text.insert(tk.END, "Special Class C: Chess Class \nPrice: RM100\n\n")
prices_text.configure(state='disabled')


```



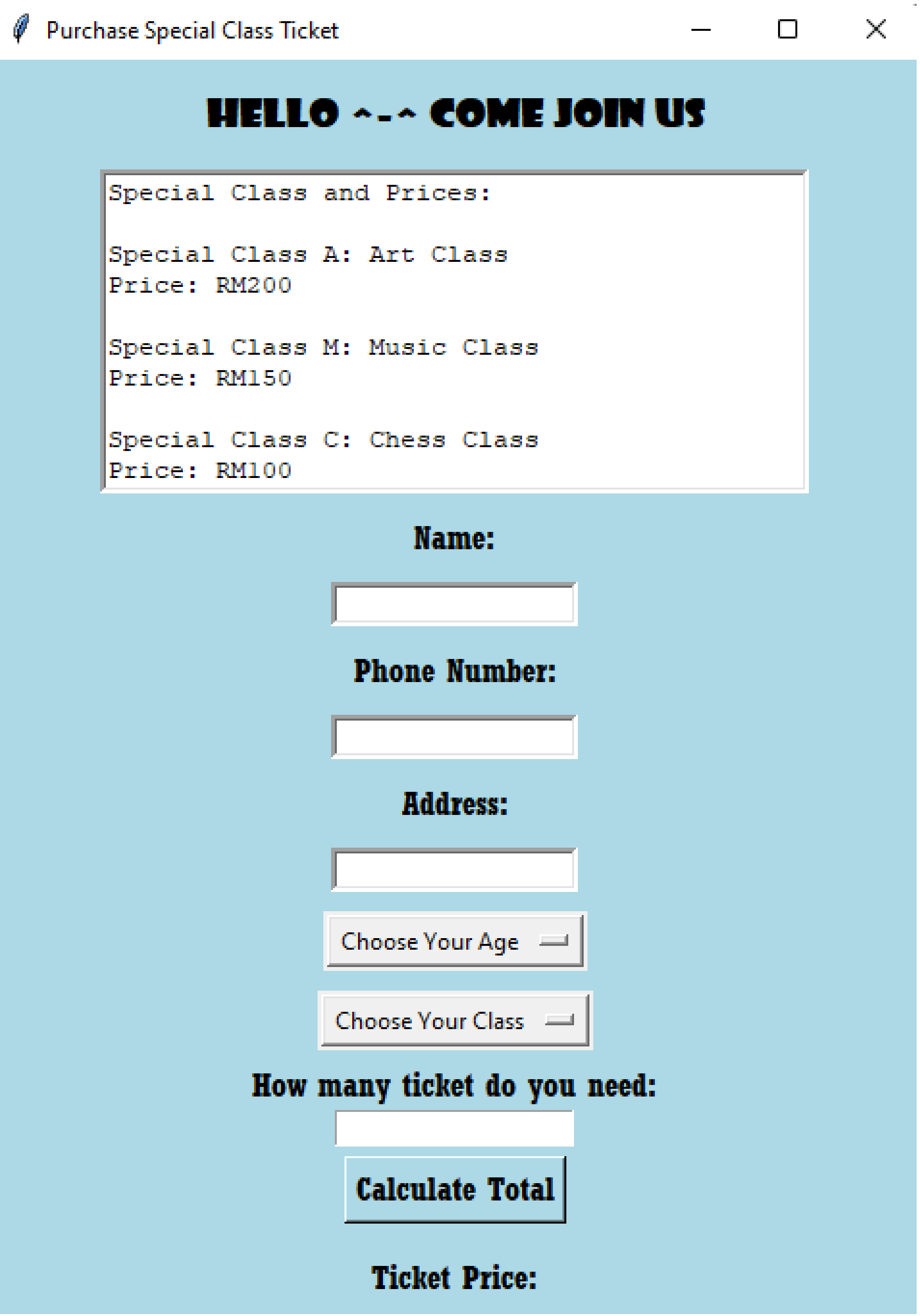
class_ticket.py > ...

```python
# Create name entry
user_name_label = tk.Label(root, text="Name:",bg="light blue", font=("Rockwell Condensed",13, "bold"))
user_name_entry = tk.Entry(root, bd=3)
user_name_label.pack(pady=5)
user_name_entry.pack(pady=5)

# Create phone entry
user_phone_number_label = tk.Label(root, text="Phone Number:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
user_phone_number_entry = tk.Entry(root, bd=3)
user_phone_number_label.pack(pady=5)
user_phone_number_entry.pack(pady=5)

# Create address entry
user_address_label = tk.Label(root, text="Address:",bg="light blue", font=("Rockwell Condensed",13, "bold"))
user_address_entry = tk.Entry(root, bd=3)
user_address_label.pack(pady=5)
user_address_entry.pack(pady=5)

# Create age entry
user_age_label = tk.StringVar(root)
user_age_label.set("Choose Your Age")  # Default value before your selection
trip_dropdown = tk.OptionMenu(root, user_age_label, "7-20 age", "21-40 age", "41-60 age")
trip_dropdown.pack(pady=5)

# Special Class Type Dropdown
class_type_var = tk.StringVar(root)
class_type_var.set("Choose Your Class")  # Default value before your selection
trip_dropdown = tk.OptionMenu(root, class_type_var, "Special Class A", "Special Class M", "Special Class C")
trip_dropdown.pack(pady=5)

```



```python

# Packs Entry
ticket_package_label = tk.Label(root, text="How many ticket do you need:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
ticket_package_label.pack()
ticket_package_entry = tk.Entry(root)
ticket_package_entry.pack()

# Save Button
save_button = tk.Button(root, text="Calculate Total", bg="light blue", font=("Rockwell Condensed",13, "bold"), command=collect_data)
save_button.pack(pady=5)

# Output Label & result
label = tk.Label(root, text="Ticket Price:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
label.pack(ipadx=10, ipady=10)
output_label = tk.Label(root, text="")
output_label.pack()


root.mainloop()
```

4.0 GRAPHICAL USER INTERFACE (GUI)



HELLO ^-^ COME JOIN US

```
Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100
```

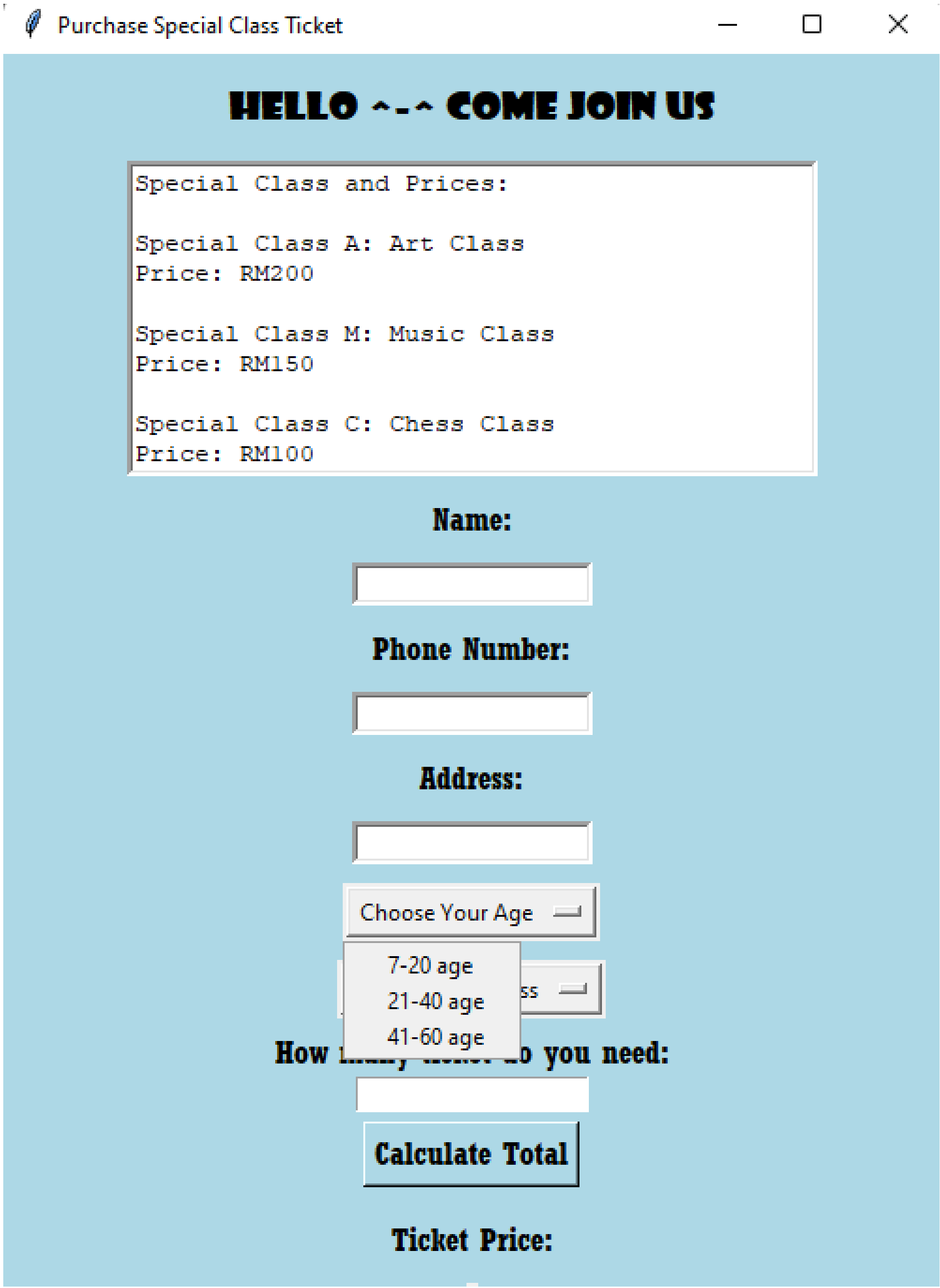
Name:

Phone Number:

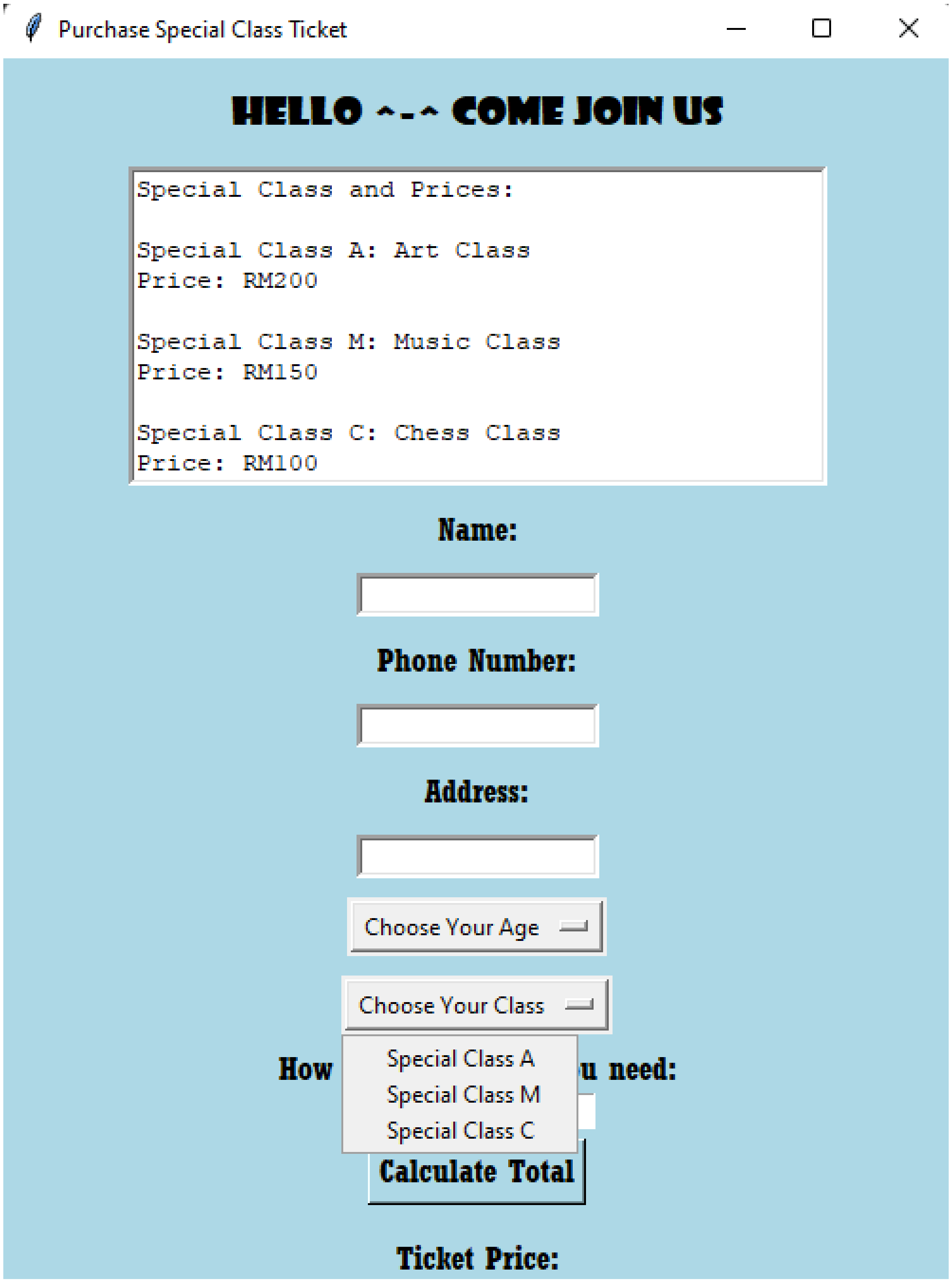
Address:

How many ticket do you need:

Ticket Price:

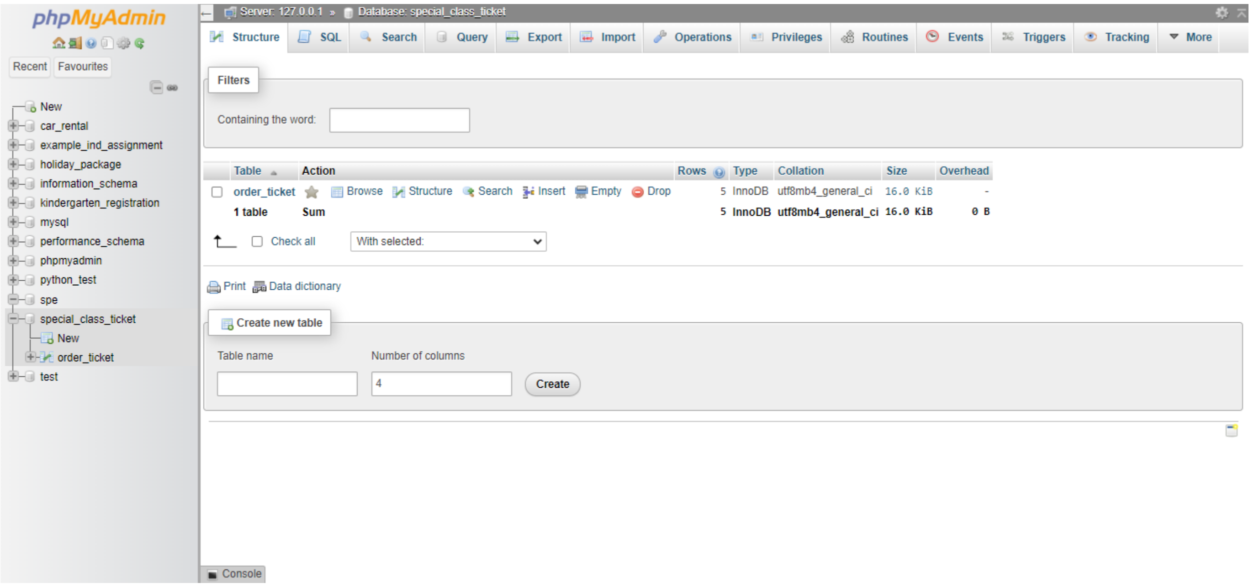


```
Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100
```



```
Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100
```

6.0 DATABASE



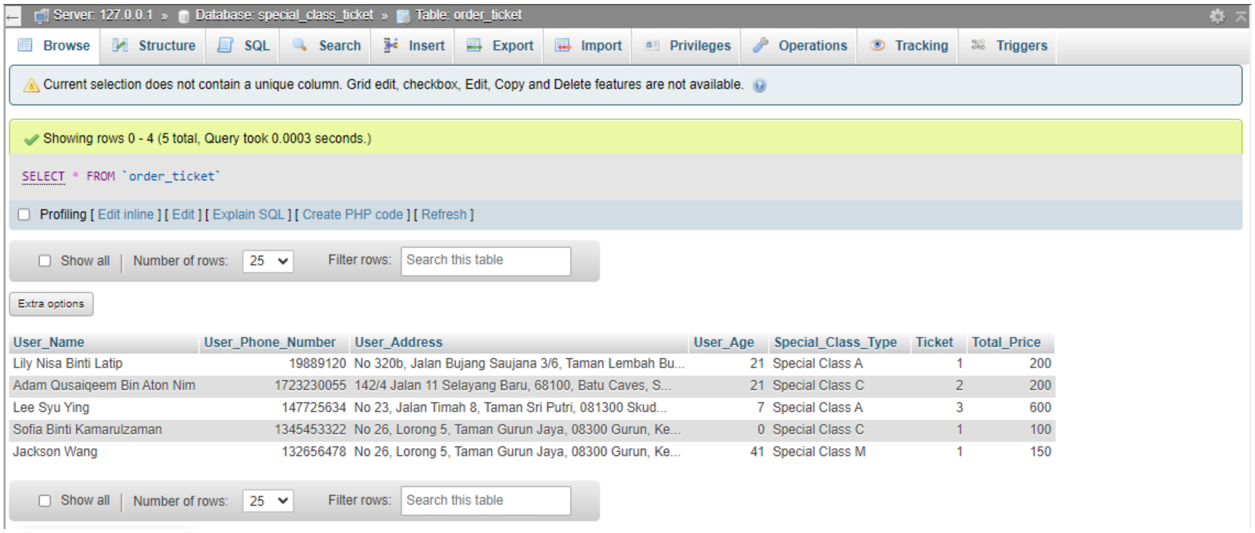
Containing the word:

	Table	Action	Rows	Type	Collation	Size	Overhead
□	order_ticket	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
	1 table	Sum	5	InnoDB	utf8mb4_general_ci	16.0 KiB	0 B

□ Check all With selected:

Table name:

Number of columns: 4



Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

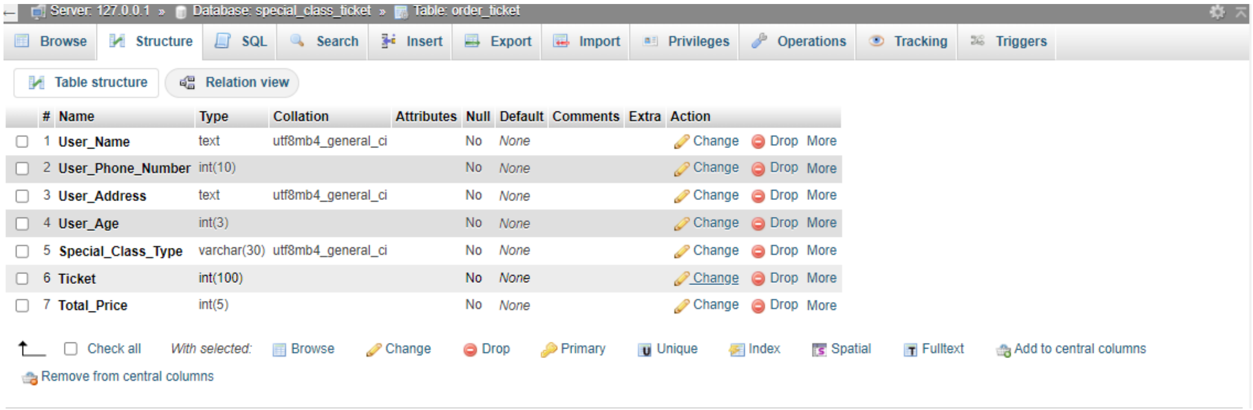
```
SELECT * FROM `order_ticket`
```

□ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

□ Show all | Number of rows: 25 Filter rows: Search this table

User_Name	User_Phone_Number	User_Address	User_Age	Special_Class_Type	Ticket	Total_Price
Lily Nisa Binti Latip	19889120	No 320b, Jalan Bujang Saujana 3/6, Taman Lembah Bu...	21	Special Class A	1	200
Adam Qusaiqeem Bin Aton Nim	1723230055	142/4 Jalan 11 Selayang Baru, 68100, Batu Caves, S...	21	Special Class C	2	200
Lee Syu Ying	147725634	No 23, Jalan Timah 8, Taman Sri Putri, 081300 Skud...	7	Special Class A	3	600
Sofia Binti Kamarulzaman	1345453322	No 26, Lorong 5, Taman Gurun Jaya, 08300 Gurun, Ke...	0	Special Class C	1	100
Jackson Wang	132656478	No 26, Lorong 5, Taman Gurun Jaya, 08300 Gurun, Ke...	41	Special Class M	1	150

□ Show all | Number of rows: 25 Filter rows: Search this table



	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
□	1	**User_Name**	text	utf8mb4_general_ci		No	*None*			Change Drop More
□	2	**User_Phone_Number**	int(10)			No	*None*			Change Drop More
□	3	**User_Address**	text	utf8mb4_general_ci		No	*None*			Change Drop More
□	4	**User_Age**	int(3)			No	*None*			Change Drop More
□	5	**Special_Class_Type**	varchar(30)	utf8mb4_general_ci		No	*None*			Change Drop More
□	6	**Ticket**	int(100)			No	*None*			Change Drop More
□	7	**Total_Price**	int(5)			No	*None*			Change Drop More

6.0 CONCLUSION

My understanding of and proficiency with Python GUI creation has really enhanced as a result of this project. The lecture materials that were handed out in class and the sample Python code that the lecturer demonstrated are really beneficial. I won't be able to finish this particular project without it.

Finally, I would want to express my sincere gratitude to my instructor and other students. My classmate assisted in the development of this interface and the resolution of the terminal issue. I'm hoping to get better at writing Python code so I can make a beautiful graphical user interface.