UNIVERSITI TEKNOLOGI MARA (UiTM) CAWANGAN KEDAH

FACULTY OF INFORMATION SCIENCE STUDIES

COLLEGE OF COMPUTING, INFORMATIONS AND MEDIA STUDIES

DIPLOMA IN LIBRARY INFORMATICS

(CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

ASSIGNMENT I: INDIVIDUAL PROJECT

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SUBMISSION DATE:

WEEK 12

4 JANUARY 2024

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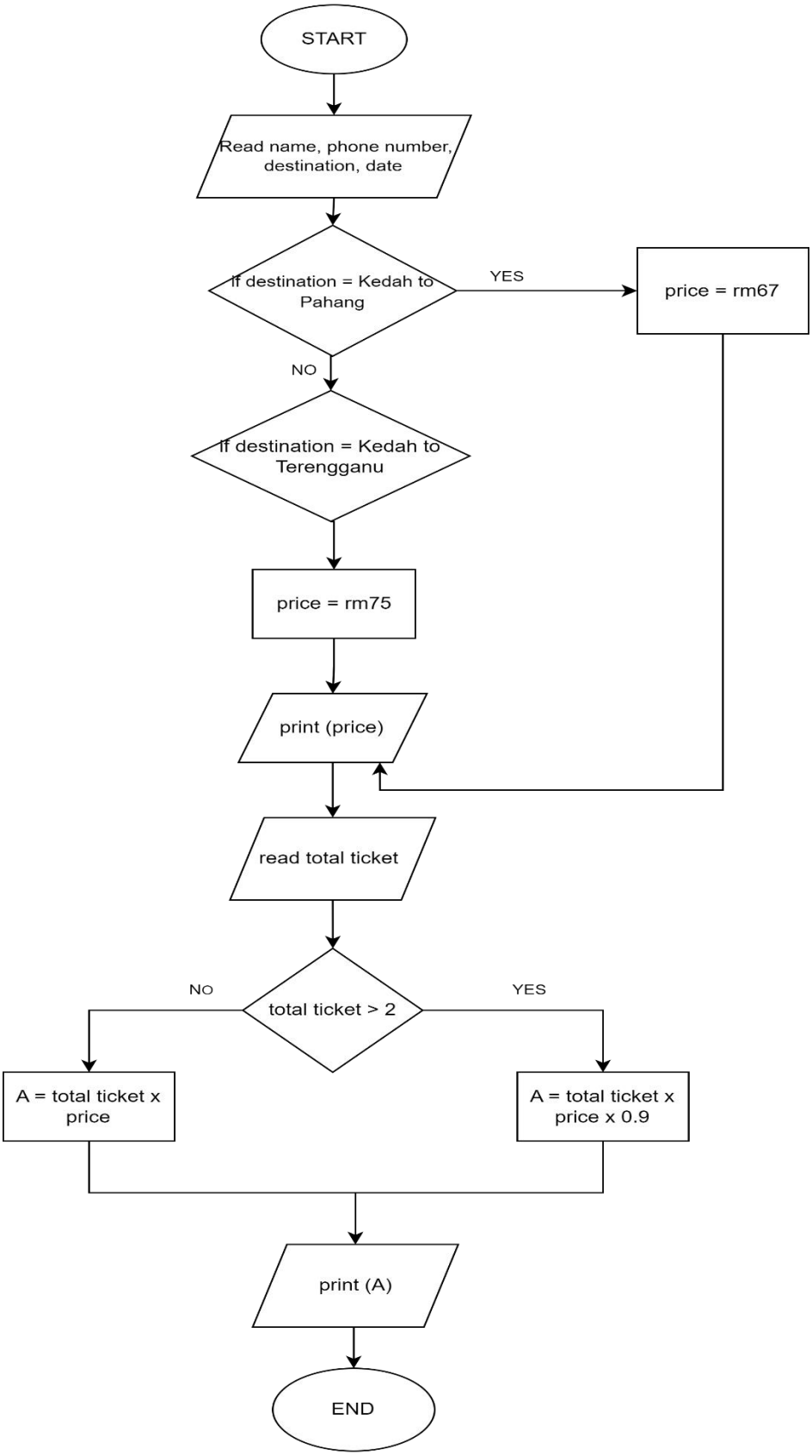
1.0 Introduction

I chose the title "online ticket bus" for my individual assignment. I created a program that provides a simple and accessible bus ticket booking platform. In order to make an online booking for a bus ticket, a customer must enter their detailed information, including their name and phone number.

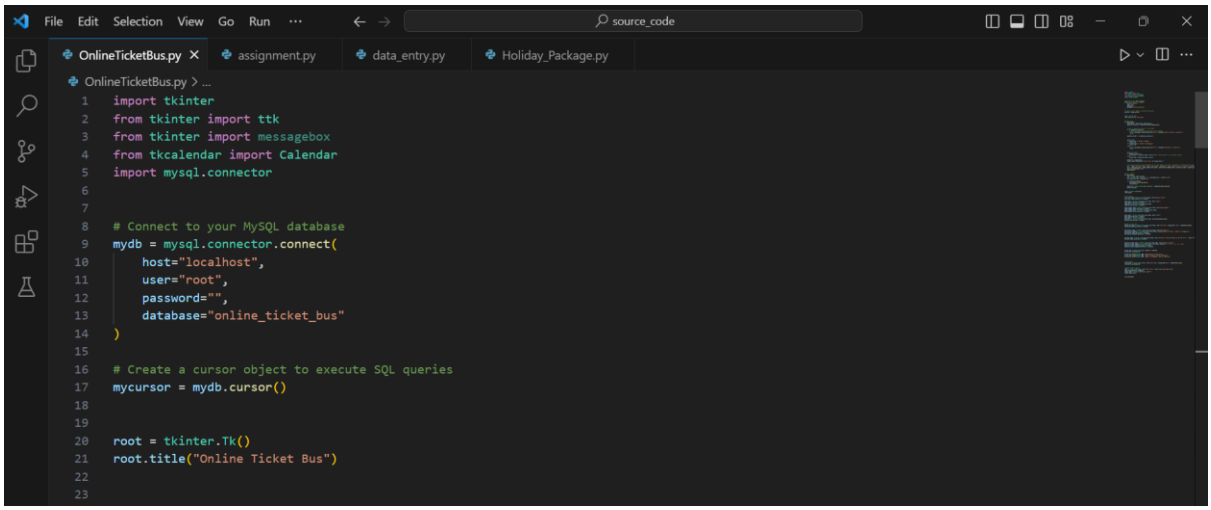
Within this program, there are only two options for destinations: "Kedah to Pahang" and "Kedah to Terengganu". Since each option has a different price, customers should choose the one they like. Following that, they should select the date they want by clicking the "Pick Date" button, which enables the date picker to appear. In addition, this program uses the US date format, which begins with the month, date, and year.

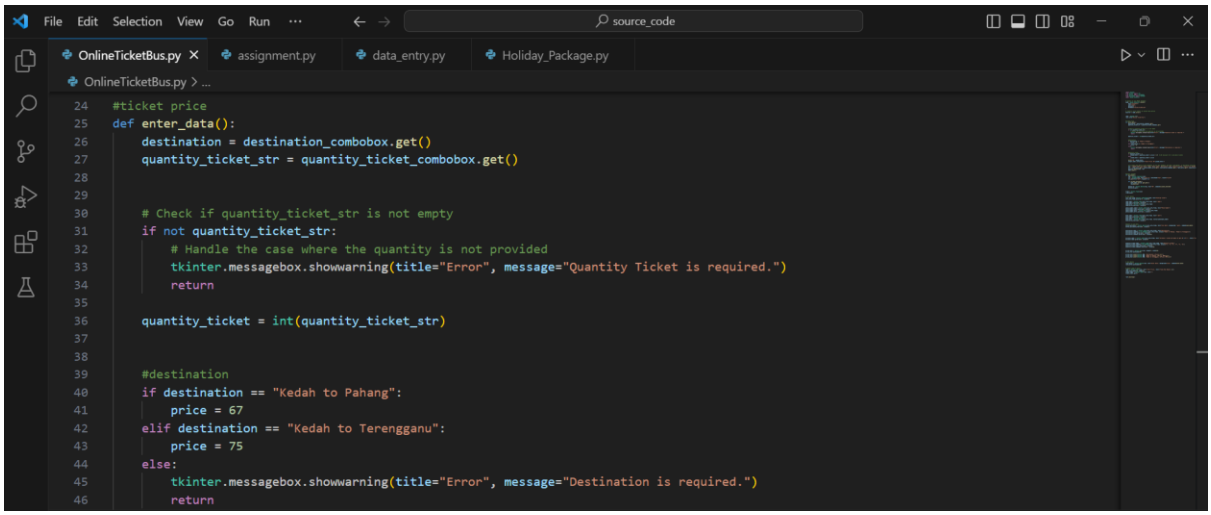
Moreover, there is a 10% discount offered for purchases of three tickets or more, so customers may choose how many tickets they like to buy. Furthermore, the warning message box will show up if the customer does not select the destination and quantity ticket since the program will not be able to calculate the price. Once the customer completes all the required information and click ‘Enter Data’ button, the total price will be displayed at the bottom and all the customer’s detail will record in the database.

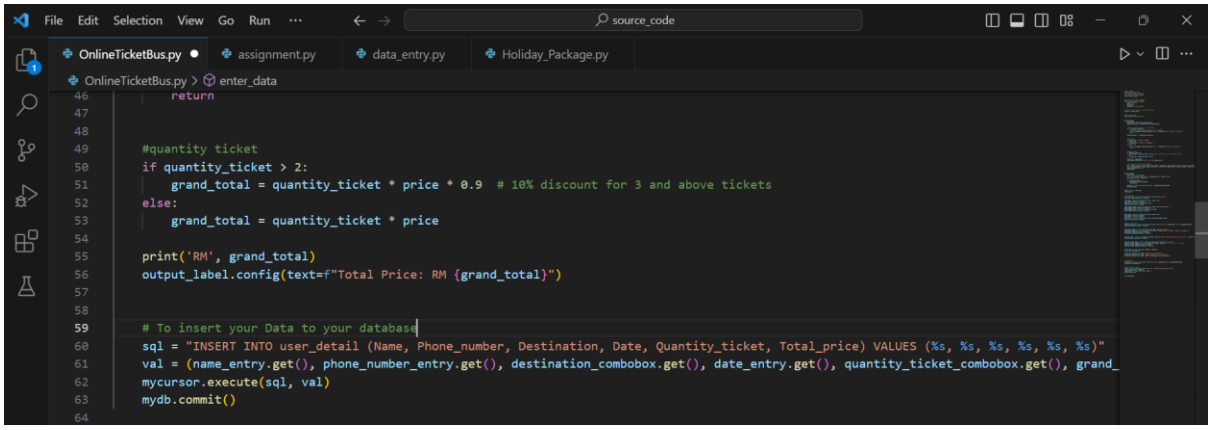
2.0 Flowchart

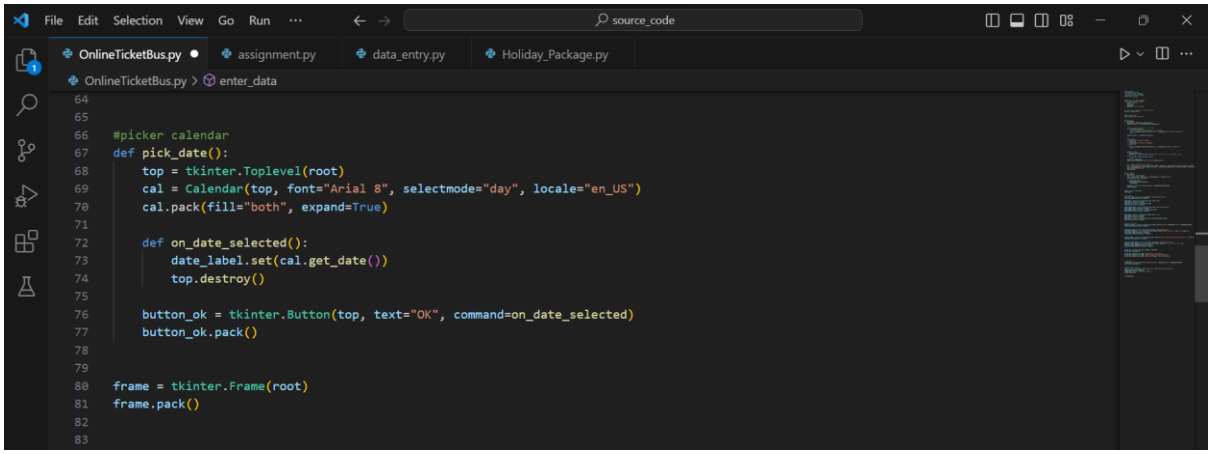


3.0 Code program Python

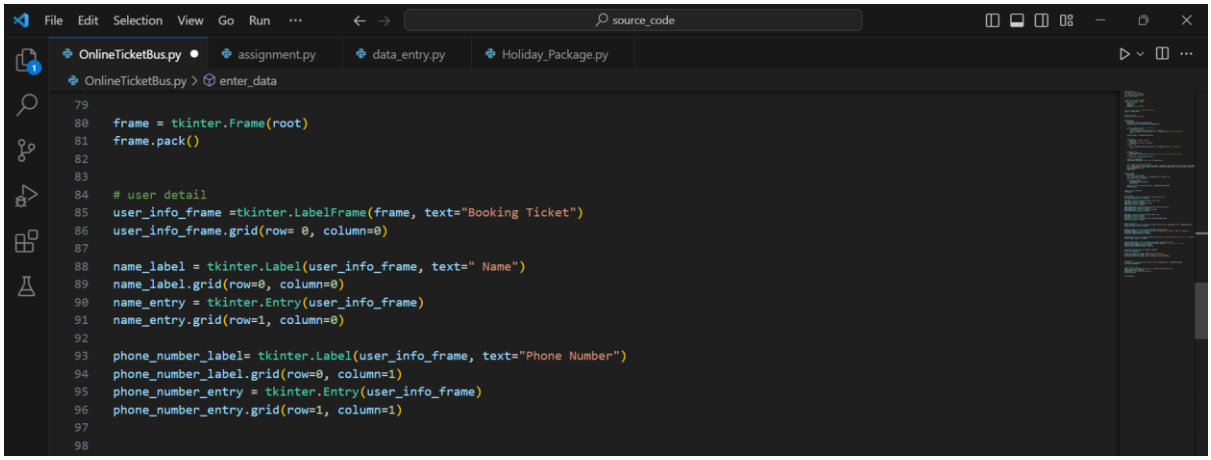




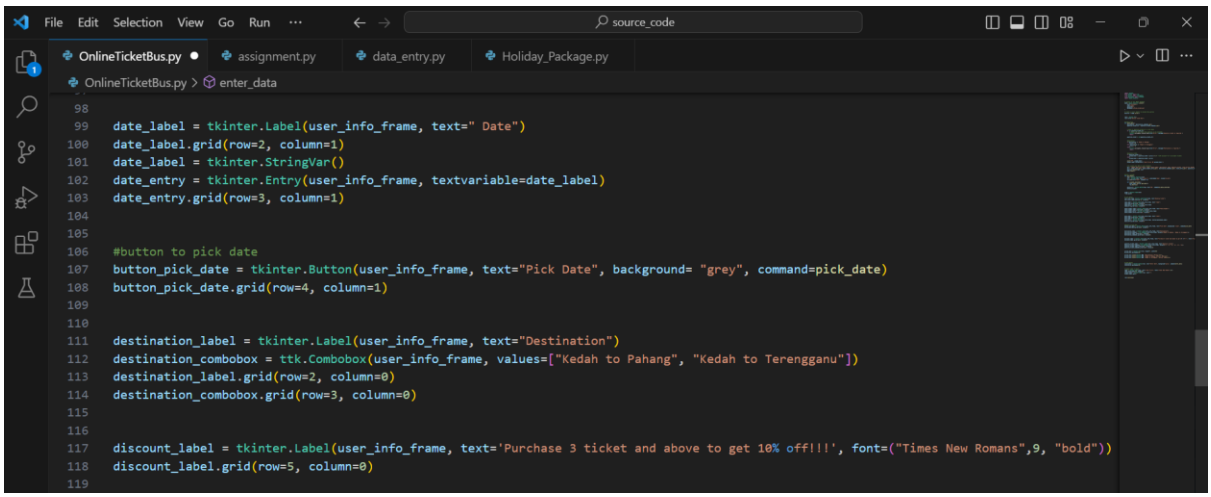




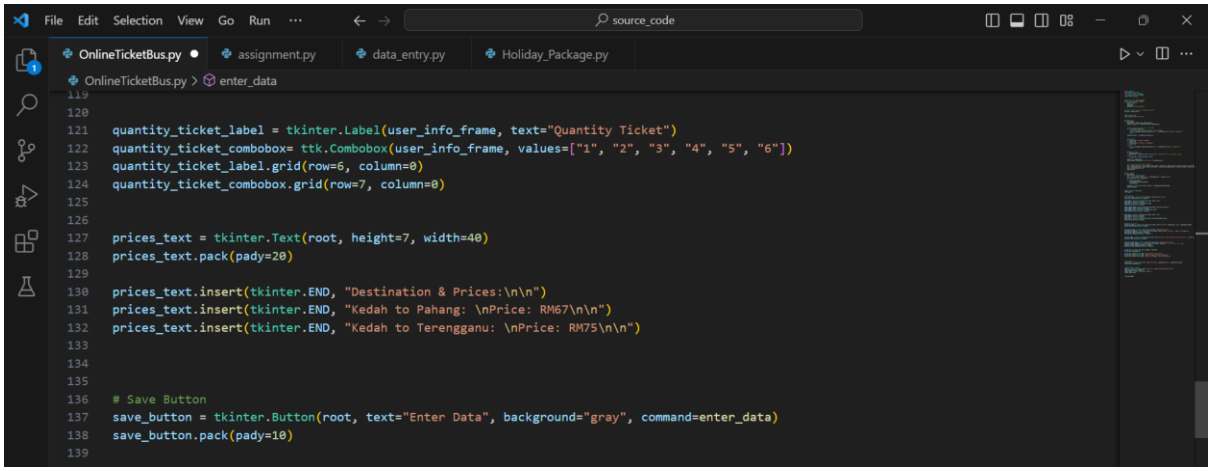

```python
#picker calendar
def pick_date():
    top = tkinter.Toplevel(root)
    cal = Calendar(top, font="Arial 8", selectmode="day", locale="en_US")
    cal.pack(fill="both", expand=True)

    def on_date_selected():
        date_label.set(cal.get_date())
        top.destroy()

    button_ok = tkinter.Button(top, text="OK", command=on_date_selected)
    button_ok.pack()


frame = tkinter.Frame(root)
frame.pack()
```



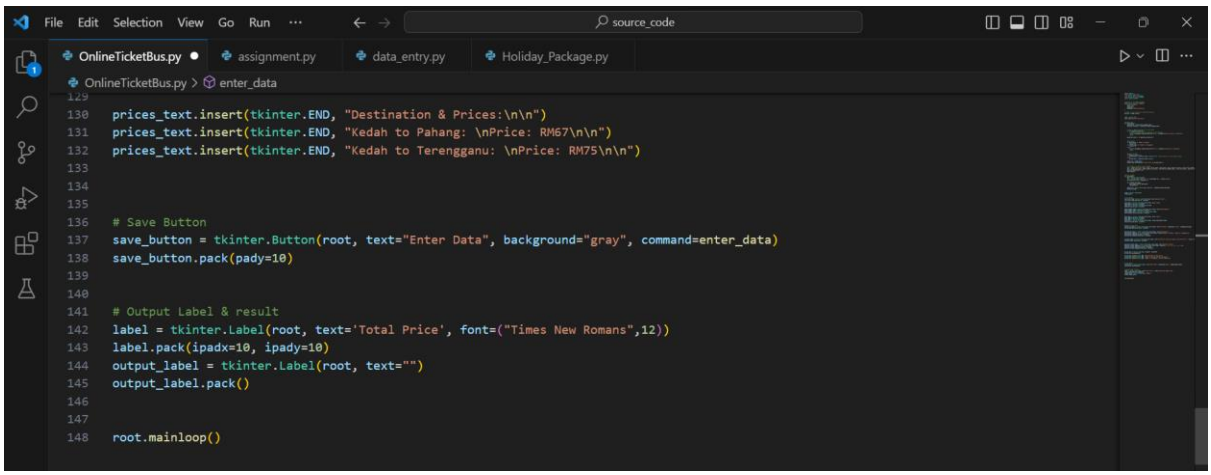

```python
frame = tkinter.Frame(root)
frame.pack()


# user detail
user_info_frame =tkinter.LabelFrame(frame, text="Booking Ticket")
user_info_frame.grid(row= 0, column=0)

name_label = tkinter.Label(user_info_frame, text=" Name")
name_label.grid(row=0, column=0)
name_entry = tkinter.Entry(user_info_frame)
name_entry.grid(row=1, column=0)

phone_number_label= tkinter.Label(user_info_frame, text="Phone Number")
phone_number_label.grid(row=0, column=1)
phone_number_entry = tkinter.Entry(user_info_frame)
phone_number_entry.grid(row=1, column=1)
```




```python
date_label = tkinter.Label(user_info_frame, text=" Date")
date_label.grid(row=2, column=1)
date_label = tkinter.StringVar()
date_entry = tkinter.Entry(user_info_frame, textvariable=date_label)
date_entry.grid(row=3, column=1)


#button to pick date
button_pick_date = tkinter.Button(user_info_frame, text="Pick Date", background= "grey", command=pick_date)
button_pick_date.grid(row=4, column=1)


destination_label = tkinter.Label(user_info_frame, text="Destination")
destination_combobox = ttk.Combobox(user_info_frame, values=["Kedah to Pahang", "Kedah to Terengganu"])
destination_label.grid(row=2, column=0)
destination_combobox.grid(row=3, column=0)


discount_label = tkinter.Label(user_info_frame, text='Purchase 3 ticket and above to get 10% off!!!', font=("Times New Romans",9, "bold"))
discount_label.grid(row=5, column=0)
```

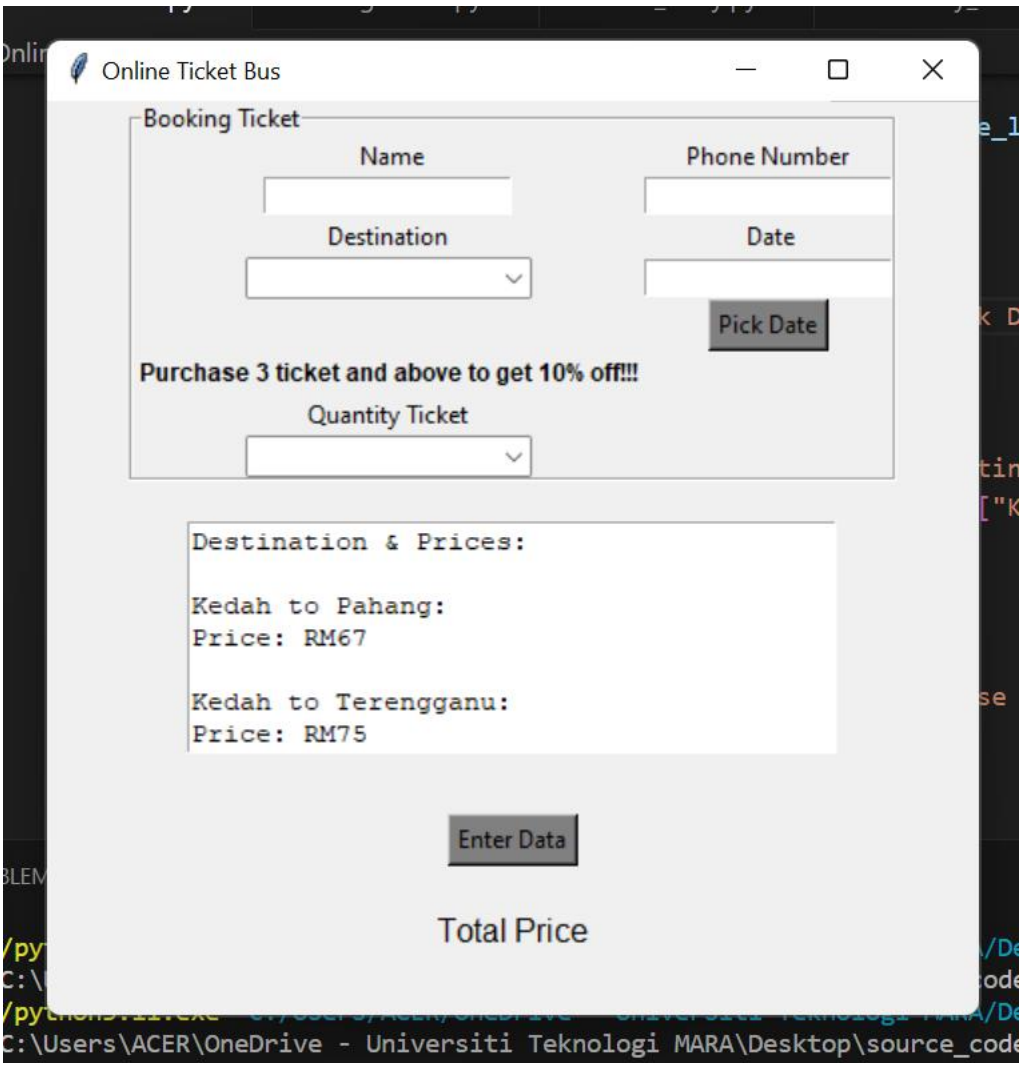


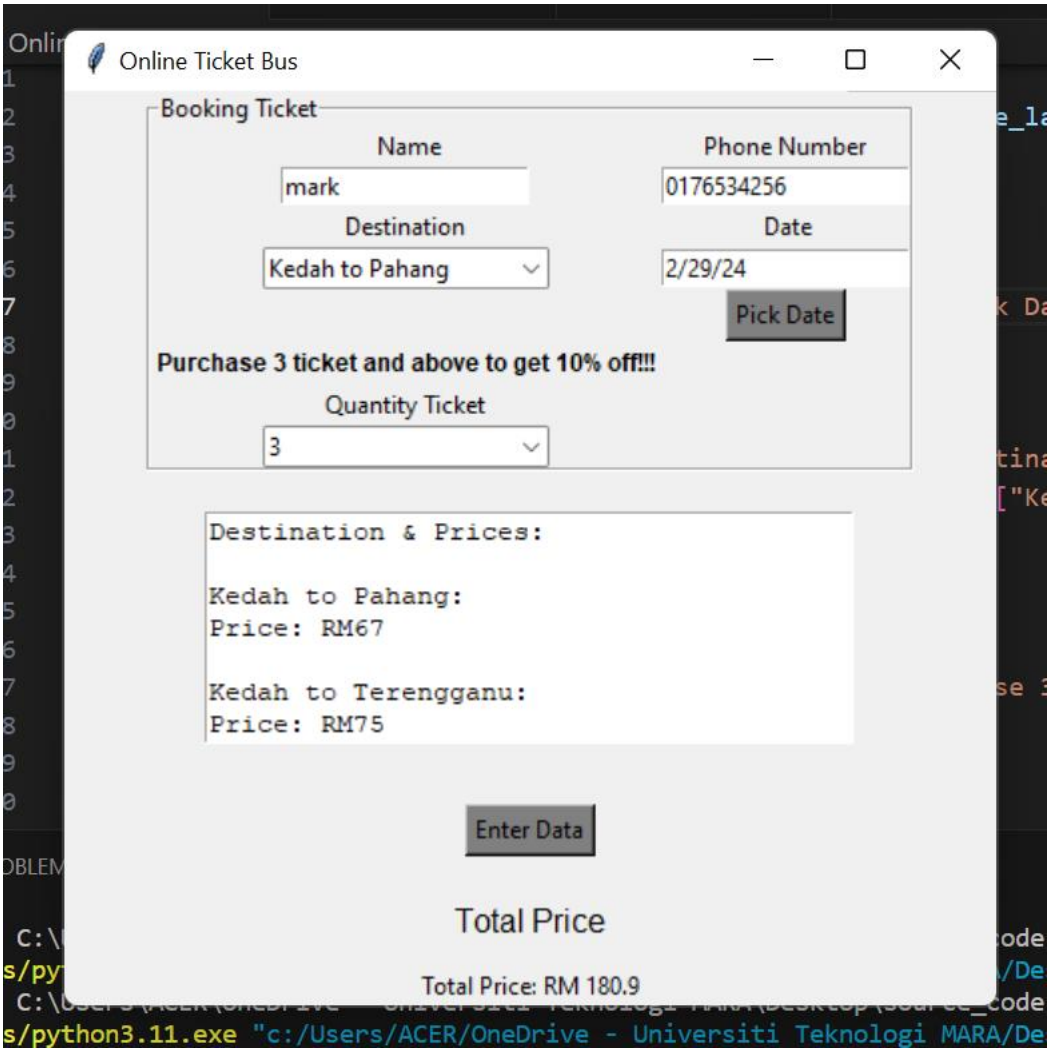
```
119
120
121   quantity_ticket_label = tkinter.Label(user_info_frame, text="Quantity Ticket")
122   quantity_ticket_combobox= ttk.Combobox(user_info_frame, values=["1", "2", "3", "4", "5", "6"])
123   quantity_ticket_label.grid(row=6, column=0)
124   quantity_ticket_combobox.grid(row=7, column=0)
125
126
127   prices_text = tkinter.Text(root, height=7, width=40)
128   prices_text.pack(pady=20)
129
130   prices_text.insert(tkinter.END, "Destination & Prices:\n\n")
131   prices_text.insert(tkinter.END, "Kedah to Pahang: \nPrice: RM67\n\n")
132   prices_text.insert(tkinter.END, "Kedah to Terengganu: \nPrice: RM75\n\n")
133
134
135
136   # Save Button
137   save_button = tkinter.Button(root, text="Enter Data", background="gray", command=enter_data)
138   save_button.pack(pady=10)
139
```



```
129
130   prices_text.insert(tkinter.END, "Destination & Prices:\n\n")
131   prices_text.insert(tkinter.END, "Kedah to Pahang: \nPrice: RM67\n\n")
132   prices_text.insert(tkinter.END, "Kedah to Terengganu: \nPrice: RM75\n\n")
133
134
135
136   # Save Button
137   save_button = tkinter.Button(root, text="Enter Data", background="gray", command=enter_data)
138   save_button.pack(pady=10)
139
140
141   # Output Label & result
142   label = tkinter.Label(root, text='Total Price', font=("Times New Romans",12))
143   label.pack(ipadx=10, ipady=10)
144   output_label = tkinter.Label(root, text="")
145   output_label.pack()
146
147
148   root.mainloop()
```

4.0 Graphical user interface (GUI)




Online Ticket Bus
Booking Ticket
Name
mark
Phone Number
0176534256
Destination
Kedah to Pahang
Date
2/29/24
Pick Date
Purchase 3 ticket and above to get 10% off!!!
Quantity Ticket
3
Destination & Prices:
Kedah to Pahang:
Price: RM67
Kedah to Terengganu:
Price: RM75
Enter Data
Total Price
Total Price: RM 180.9

5.0 Database phpMyAdmin