UNIVERSITI TEKNOLOGI MARA

SCHOOL OF INFORMATION SCIENCE,

COLLEGE OF COMPUTING,
INFORMATICS AND MEDIA,

UNIVERSITI TEKNOLOGI MARA (UiTM)

DIPLOMA IN LIBRARY INFORMATICS

(CDIM 144)

PROGRAMMING FOR LIBRARIES (IML208)

"INDIVIDUAL ASSIGNMENT: COMIC PURCHASE"

BY:

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CLASS: KIM144(3E)

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SUBMISSION DATE:

4th January 2024

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CAWANGAN KEDAH

4th January 2024

ACKNOWLEDGEMENT

First, I would like to thank to the Almighty God for providing me the strength needed to complete this assignment and because of His blessing I would not have gone this far. I have worked so hard and gave my full commitment to give the best result for this assignment.

Furthermore, I would like to express my respect and gratitude to my lecturer, Dr Ahmad Sufi Alawi Bin Idris for helping and guiding me doing this assignment. I also wanted to thank him for teaching me this course, support me, and help me to understand about this course.

Moreover, I wanted to show my thanks to my lovely family for their support and their blessings towards my studies.

Lastly, I wanted to thank my fellow classmates for supporting me and guiding me. Because of this, I feel motivated and excited to do the assignment.

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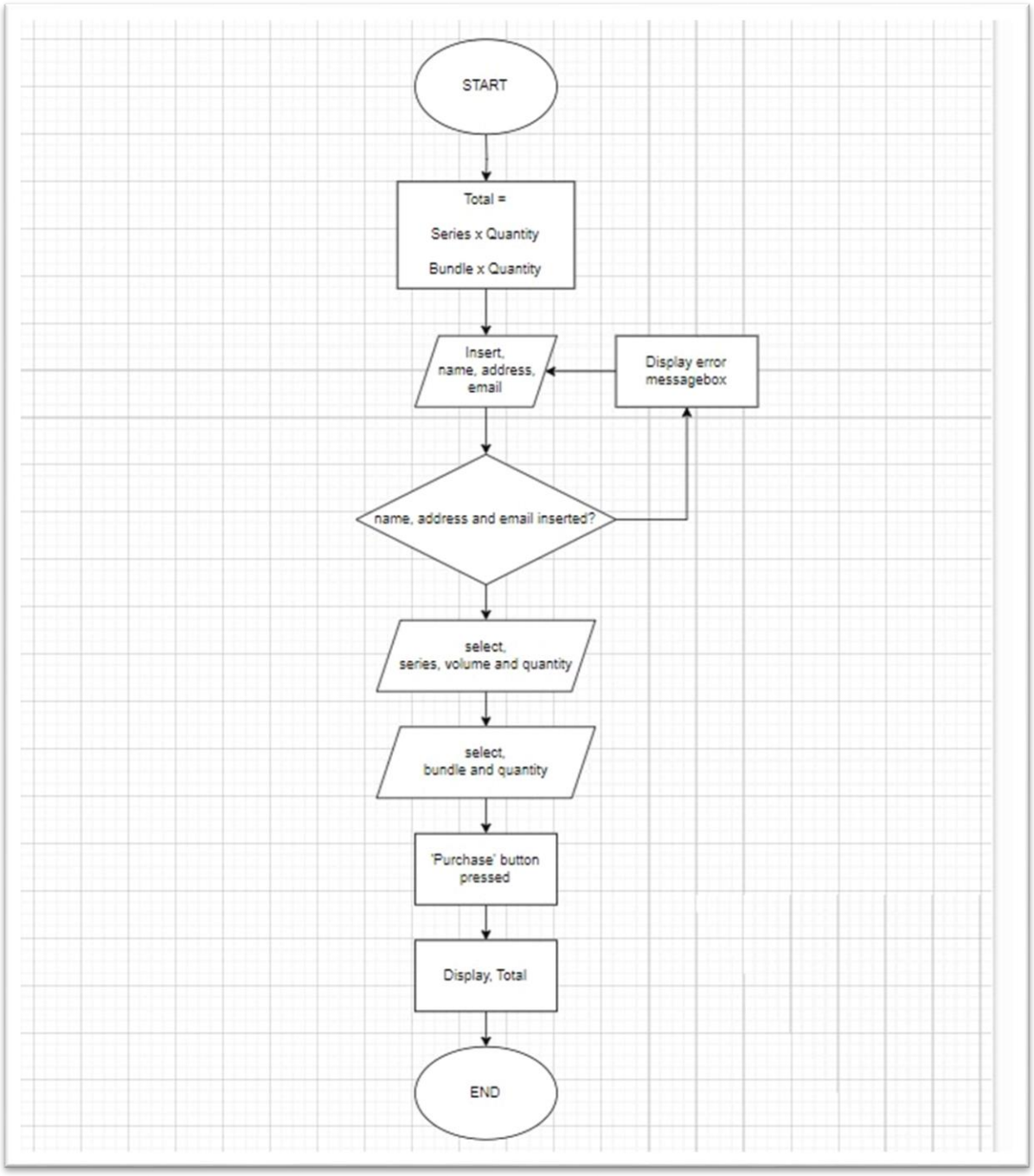
1.0 Introduction

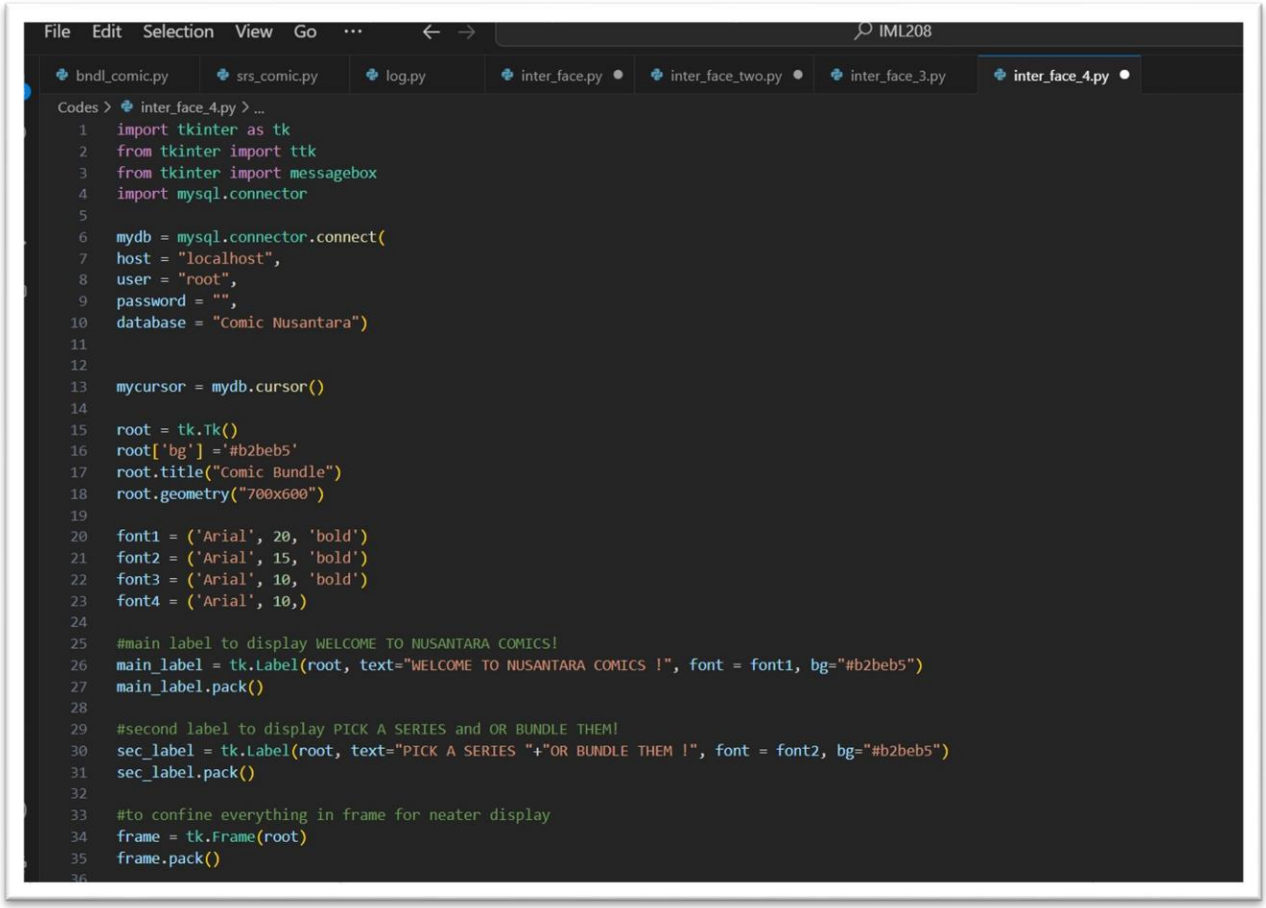
For this individual assignment, I have chosen comic purchase system as my project. Its main idea is that it will work as an interface for users that wanted to either purchase a book or buy them in a bundle form, which is a set of books in a series. This project is enabled to take input from user and store it in a database system. This will allow the handler to review said input for future purposes.

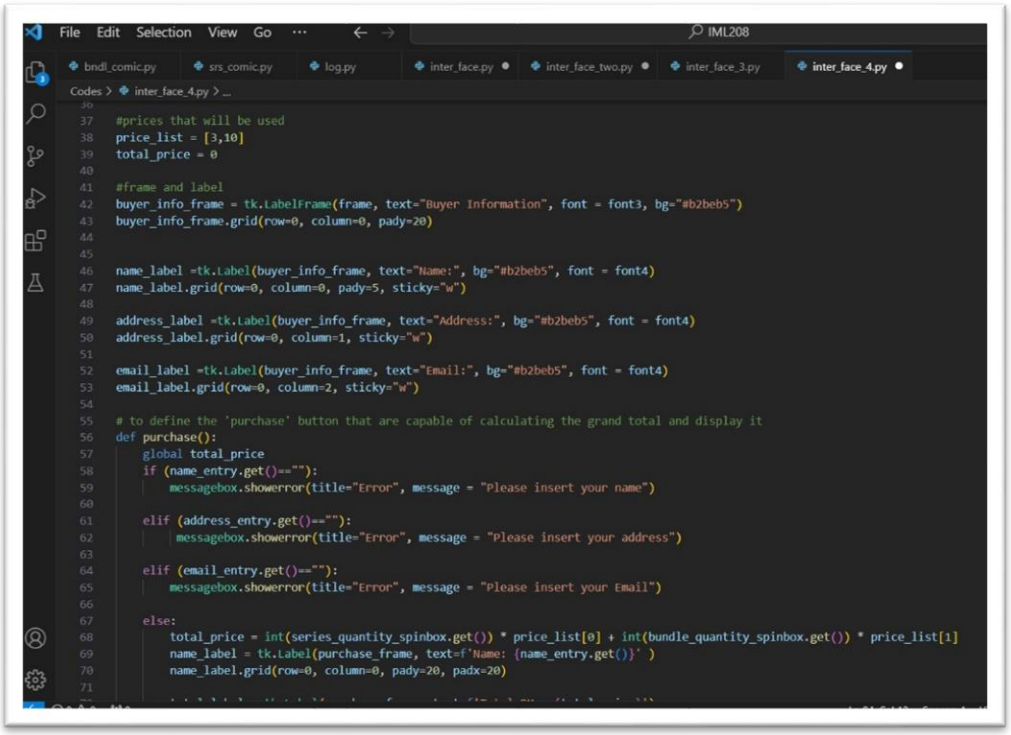
The interface consists of name entry, address entry, e-mail entry, series selection, volume selection, quantity of selected series, type of bundle, quantity of the bundle, and a function to display the grand total of everything purchased.

2.0 Flowchart

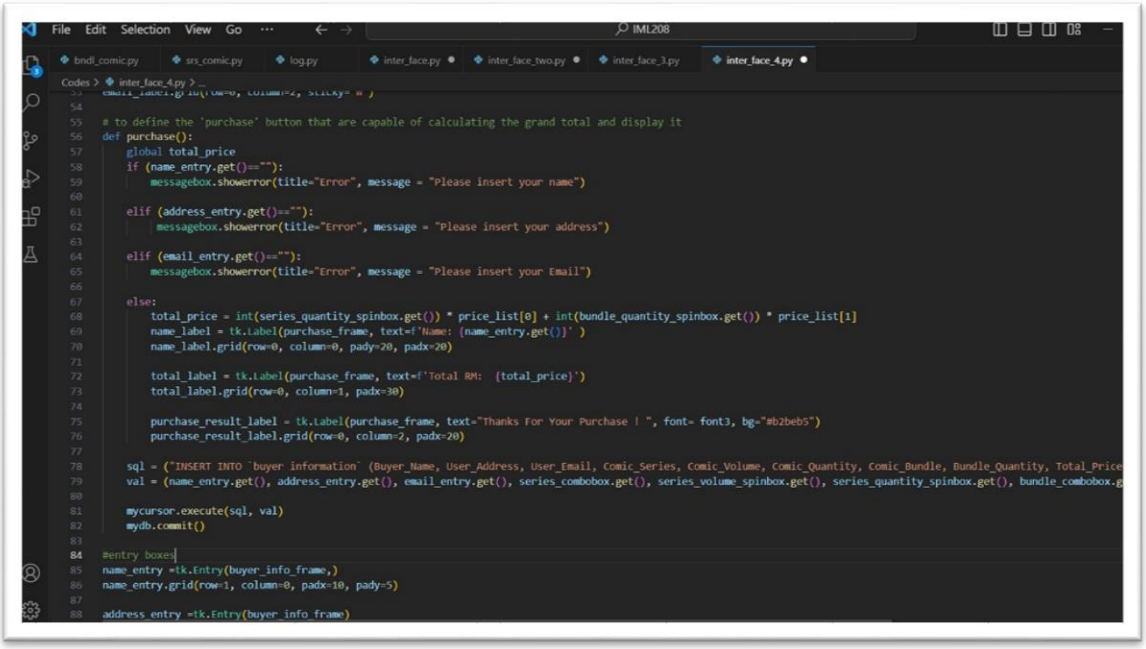


3.0 Codes

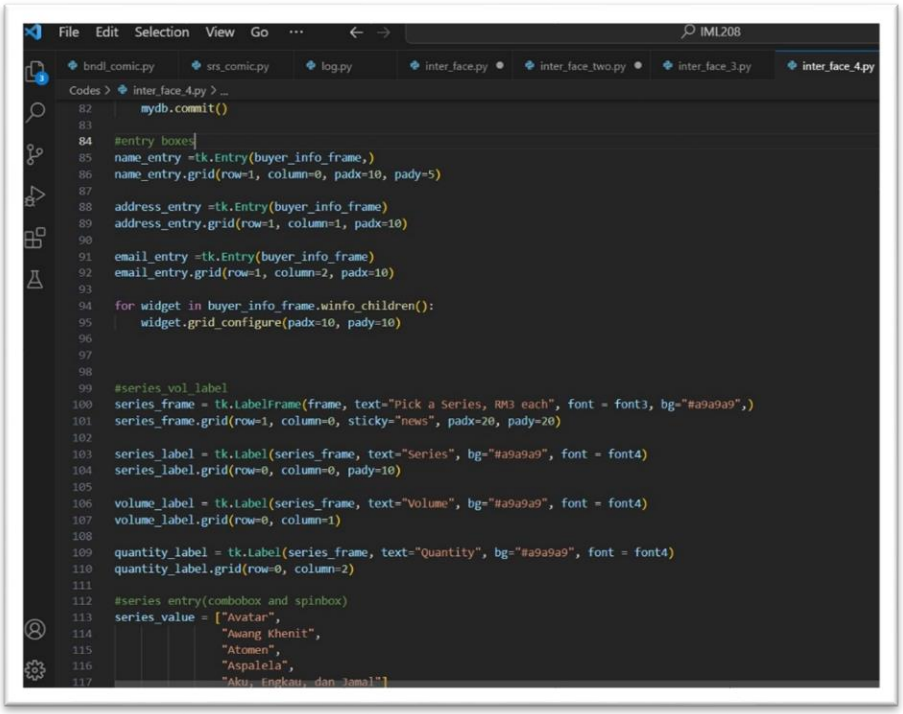

File Edit Selection View Go ···
IML208
bndl_comic.py
srs_comic.py
log.py
inter_face.py
inter_face_two.py
inter_face_3.py
inter_face_4.py
Codes > inter_face_4.py > ...
1 import tkinter as tk
2 from tkinter import ttk
3 from tkinter import messagebox
4 import mysql.connector
5
6 mydb = mysql.connector.connect(
7 host = "localhost",
8 user = "root",
9 password = "",
10 database = "Comic Nusantara")
11
12
13 mycursor = mydb.cursor()
14
15 root = tk.Tk()
16 root['bg'] ='#b2beb5'
17 root.title("Comic Bundle")
18 root.geometry("700x600")
19
20 font1 = ('Arial', 20, 'bold')
21 font2 = ('Arial', 15, 'bold')
22 font3 = ('Arial', 10, 'bold')
23 font4 = ('Arial', 10,)
24
25 #main label to display WELCOME TO NUSANTARA COMICS!
26 main_label = tk.Label(root, text="WELCOME TO NUSANTARA COMICS !", font = font1, bg="#b2beb5")
27 main_label.pack()
28
29 #second label to display PICK A SERIES and OR BUNDLE THEM!
30 sec_label = tk.Label(root, text="PICK A SERIES "+"OR BUNDLE THEM !", font = font2, bg="#b2beb5")
31 sec_label.pack()
32
33 #to confine everything in frame for neater display
34 frame = tk.Frame(root)
35 frame.pack()



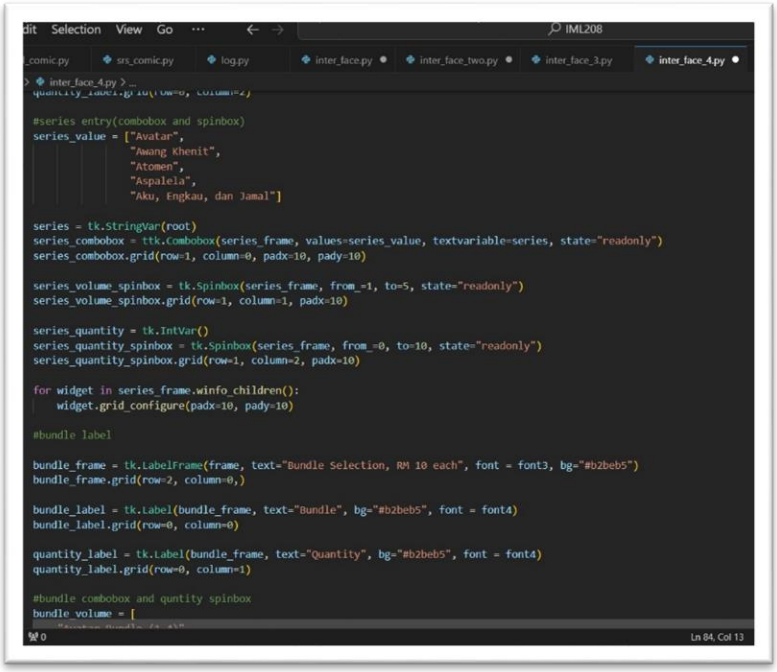
```
#prices that will be used
price_list = [3,10]
total_price = 0

#frame and label
buyer_info_frame = tk.LabelFrame(frame, text="Buyer Information", font = font3, bg="#b2beb5")
buyer_info_frame.grid(row=0, column=0, pady=20)


name_label =tk.Label(buyer_info_frame, text="Name:", bg="#b2beb5", font = font4)
name_label.grid(row=0, column=0, pady=5, sticky="w")

address_label =tk.Label(buyer_info_frame, text="Address:", bg="#b2beb5", font = font4)
address_label.grid(row=0, column=1, sticky="w")

email_label =tk.Label(buyer_info_frame, text="Email:", bg="#b2beb5", font = font4)
email_label.grid(row=0, column=2, sticky="w")

# to define the 'purchase' button that are capable of calculating the grand total and display it
def purchase():
    global total_price
    if (name_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your name")

    elif (address_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your address")

    elif (email_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your Email")

    else:
        total_price = int(series_quantity_spinbox.get()) * price_list[0] + int(bundle_quantity_spinbox.get()) * price_list[1]
        name_label = tk.Label(purchase_frame, text=f'Name: {name_entry.get()}' )
        name_label.grid(row=0, column=0, pady=20, padx=20)
```



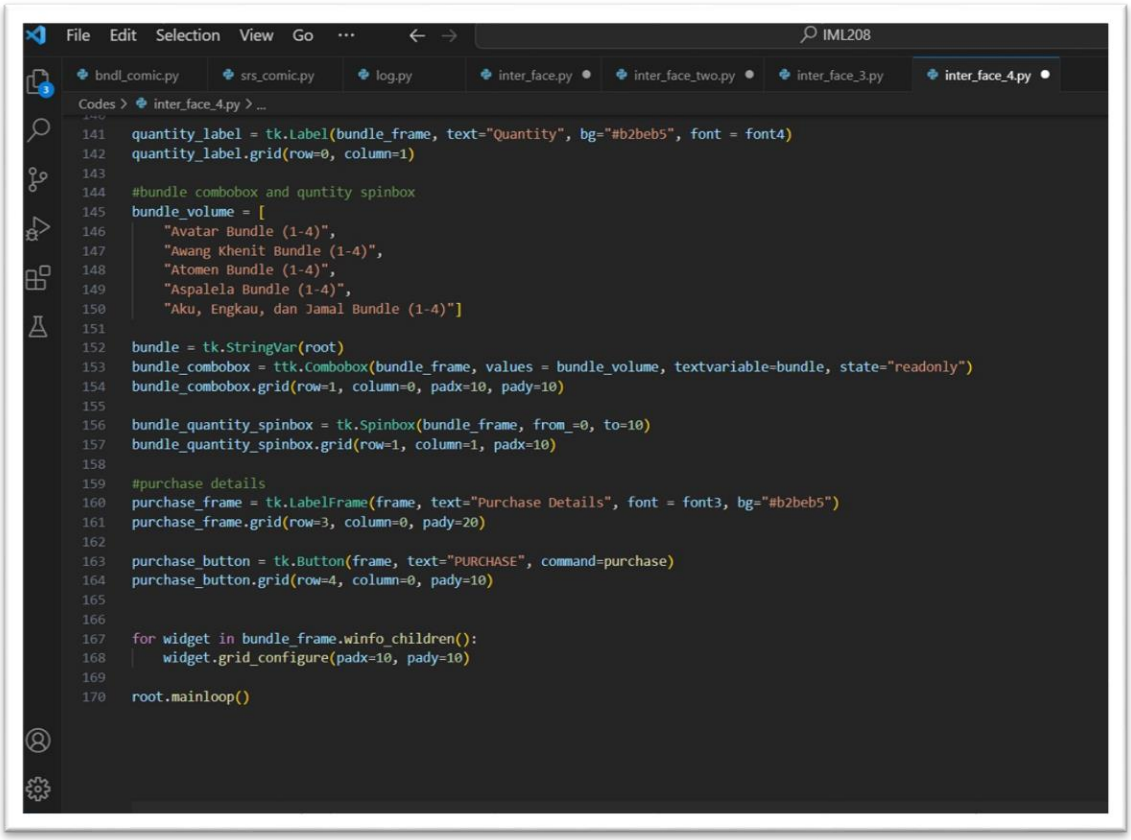
```
# to define the 'purchase' button that are capable of calculating the grand total and display it
def purchase():
    global total_price
    if (name_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your name")

    elif (address_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your address")

    elif (email_entry.get()==""):
        messagebox.showerror(title="Error", message = "Please insert your Email")

    else:
        total_price = int(series_quantity_spinbox.get()) * price_list[0] + int(bundle_quantity_spinbox.get()) * price_list[1]
        name_label = tk.Label(purchase_frame, text=f'Name: {name_entry.get()}' )
        name_label.grid(row=0, column=0, pady=20, padx=20)

        total_label = tk.Label(purchase_frame, text=f'Total RM:  {total_price}')
        total_label.grid(row=0, column=1, padx=30)

        purchase_result_label = tk.Label(purchase_frame, text="Thanks For Your Purchase ! ", font= font3, bg="#b2beb5")
        purchase_result_label.grid(row=0, column=2, padx=20)

    sql = ("INSERT INTO `buyer information` (Buyer_Name, User_Address, User_Email, Comic_Series, Comic_Volume, Comic_Quantity, Comic_Bundle, Bundle_Quantity, Total_Price
    val = (name_entry.get(), address_entry.get(), email_entry.get(), series_combobox.get(), series_volume_spinbox.get(), series_quantity_spinbox.get(), bundle_combobox.g

    mycursor.execute(sql, val)
    mydb.commit()

#entry boxes
name_entry =tk.Entry(buyer_info_frame,)
name_entry.grid(row=1, column=0, padx=10, pady=5)

address_entry =tk.Entry(buyer_info_frame)
```



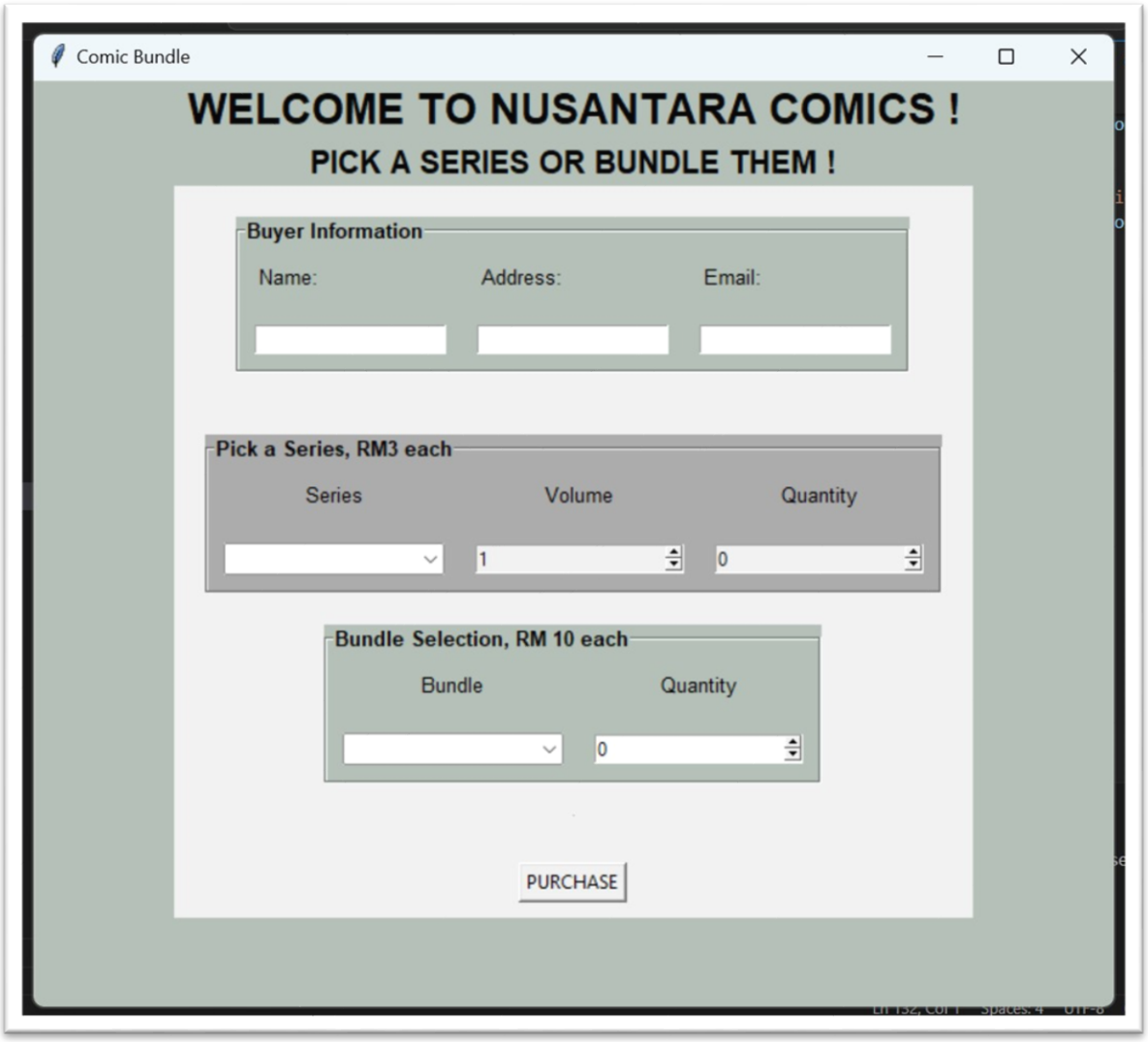
```
        mydb.commit()

    #entry boxes
    name_entry =tk.Entry(buyer_info_frame,)
    name_entry.grid(row=1, column=0, padx=10, pady=5)

    address_entry =tk.Entry(buyer_info_frame)
    address_entry.grid(row=1, column=1, padx=10)

    email_entry =tk.Entry(buyer_info_frame)
    email_entry.grid(row=1, column=2, padx=10)

    for widget in buyer_info_frame.winfo_children():
        widget.grid_configure(padx=10, pady=10)



    #series vol label
    series_frame = tk.LabelFrame(frame, text="Pick a Series, RM3 each", font = font3, bg="#a9a9a9",)
    series_frame.grid(row=1, column=0, sticky="news", padx=20, pady=20)

    series_label = tk.Label(series_frame, text="Series", bg="#a9a9a9", font = font4)
    series_label.grid(row=0, column=0, pady=10)

    volume_label = tk.Label(series_frame, text="Volume", bg="#a9a9a9", font = font4)
    volume_label.grid(row=0, column=1)

    quantity_label = tk.Label(series_frame, text="Quantity", bg="#a9a9a9", font = font4)
    quantity_label.grid(row=0, column=2)

    #series entry(combobox and spinbox)
    series_value = ["Avatar",
                    "Awang Khenit",
                    "Atomen",
                    "Aspalela",
                    "Aku, Engkau, dan Jamal"]
```



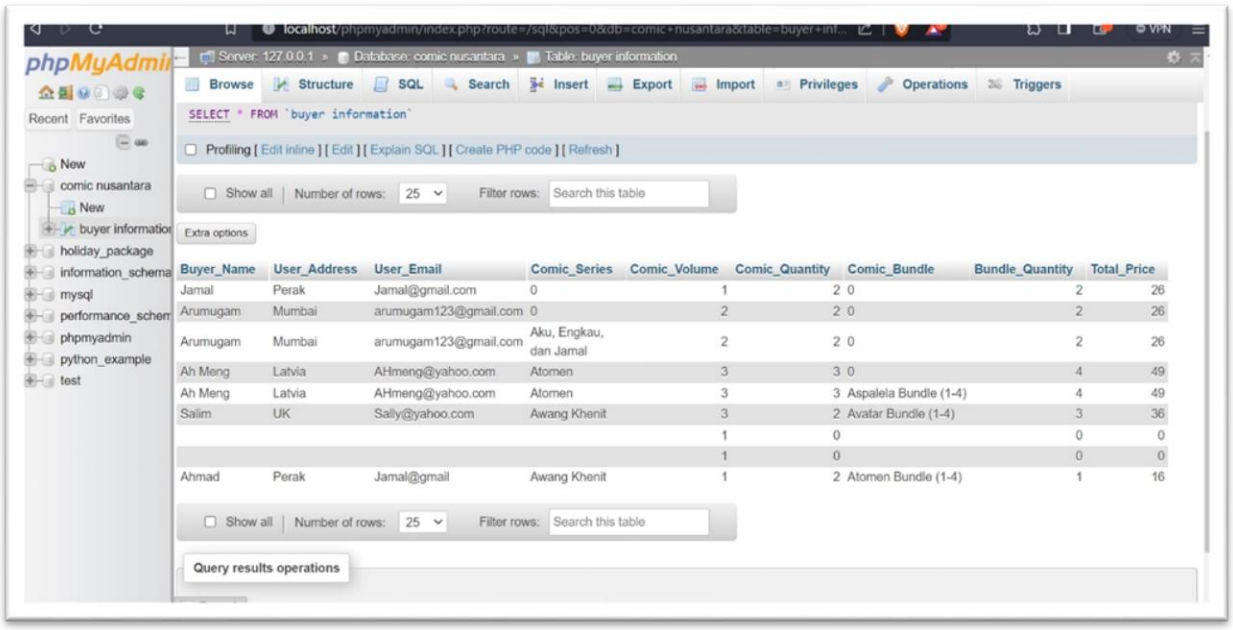
```
#series entry(combobox and spinbox)
series_value = ["Avatar",
                "Awang Khenit",
                "Atomen",
                "Aspalela",
                "Aku, Engkau, dan Jamal"]

series = tk.StringVar(root)
series_combobox = ttk.Combobox(series_frame, values=series_value, textvariable=series, state="readonly")
series_combobox.grid(row=1, column=0, padx=10, pady=10)

series_volume_spinbox = tk.Spinbox(series_frame, from_=1, to=5, state="readonly")
series_volume_spinbox.grid(row=1, column=1, padx=10)

series_quantity = tk.IntVar()
series_quantity_spinbox = tk.Spinbox(series_frame, from_=0, to=10, state="readonly")
series_quantity_spinbox.grid(row=1, column=2, padx=10)

for widget in series_frame.winfo_children():
    widget.grid_configure(padx=10, pady=10)

#bundle label

bundle_frame = tk.LabelFrame(frame, text="Bundle Selection, RM 10 each", font = font3, bg="#b2beb5")
bundle_frame.grid(row=2, column=0,)

bundle_label = tk.Label(bundle_frame, text="Bundle", bg="#b2beb5", font = font4)
bundle_label.grid(row=0, column=0)

quantity_label = tk.Label(bundle_frame, text="Quantity", bg="#b2beb5", font = font4)
quantity_label.grid(row=0, column=1)

#bundle combobox and quntity spinbox
bundle_volume = [
```


File Edit Selection View Go ···
IML208
bndl_comic.py
srs_comic.py
log.py
inter_face.py
inter_face_two.py
inter_face_3.py
inter_face_4.py
Codes > inter_face_4.py > ...
141 quantity_label = tk.Label(bundle_frame, text="Quantity", bg="#b2beb5", font = font4)
142 quantity_label.grid(row=0, column=1)
143
144 #bundle combobox and quntity spinbox
145 bundle_volume = [
146 "Avatar Bundle (1-4)",
147 "Awang Khenit Bundle (1-4)",
148 "Atomen Bundle (1-4)",
149 "Aspalela Bundle (1-4)",
150 "Aku, Engkau, dan Jamal Bundle (1-4)"]
151
152 bundle = tk.StringVar(root)
153 bundle_combobox = ttk.Combobox(bundle_frame, values = bundle_volume, textvariable=bundle, state="readonly")
154 bundle_combobox.grid(row=1, column=0, padx=10, pady=10)
155
156 bundle_quantity_spinbox = tk.Spinbox(bundle_frame, from_=0, to=10)
157 bundle_quantity_spinbox.grid(row=1, column=1, padx=10)
158
159 #purchase details
160 purchase_frame = tk.LabelFrame(frame, text="Purchase Details", font = font3, bg="#b2beb5")
161 purchase_frame.grid(row=3, column=0, pady=20)
162
163 purchase_button = tk.Button(frame, text="PURCHASE", command=purchase)
164 purchase_button.grid(row=4, column=0, pady=10)
165
166
167 for widget in bundle_frame.winfo_children():
168 widget.grid_configure(padx=10, pady=10)
169
170 root.mainloop()

4.0 GUI


Comic Bundle
WELCOME TO NUSANTARA COMICS !
PICK A SERIES OR BUNDLE THEM !
Buyer Information
Name:
Address:
Email:
Pick a Series, RM3 each
Series
Volume
Quantity
1
0
Bundle Selection, RM 10 each
Bundle
Quantity
0
PURCHASE

5.0 Database



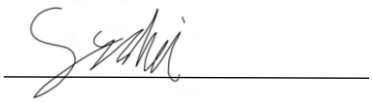
For this part, the proper data was inserted in the 4th entry, starting with Ah Meng.

STUDENT PLEDGE OF ACADEMIC INTEGRITY

As a student of Universiti Teknologi MARA (UiTM), it is my responsibility to act in accordance with UiTM's academic assessment and evaluation policy. I hereby pledge to act and uphold academic integrity and pursue scholarly activities in UiTM with honesty and responsible manner. I will not engage or tolerate acts of academic dishonesty, academic misconduct, or academic fraud including but not limited to:

a. **Cheating:** Using or attempt to use any unauthorized device, assistance, sources, practice or materials while completing academic assessments. This include but not limited to copying from another, allowing others to copy, unauthorized collaboration on an assignment or open book tests, or engaging in any act or conduct that can be construed as cheating.
b. **Plagiarism:** Using or attempts to use the work of others (ideas, design, words, art, music, etc.) without acknowledging the source; using or purchasing materials prepared by another person or agency or engaging in other behavior that a reasonable person would consider as plagiarism.
c. **Fabrication:** Falsifying data, information, or citations in any academic assessment and evaluation.
d. **Deception:** Providing false information with intend to deceive an instructor concerning any academic assessment and evaluation.
e. **Furnishing false information:** Providing false information or false representation to any UiTM official, instructor, or office.

With this pledge, I am fully aware that I am obliged to conduct myself with utmost honesty and integrity. I fully understand that a disciplinary action can be taken against me if I, in any manner, violate this pledge.



Name: MUHAMMAD IZZAT SYAHMI BIN MOHAMMAD NIZAM

Matric Number: 2022661584

Course Code: CTU264

Program Code: CDIM 144

Faculty / Campus: Information Management

*Students are required to sign one pledge for each course taken.

Bahagian Pentaksiran dan Penilaian Akademik 2021