



**UNIVERSITI TEKNOLOGI MARA
KEDAH BRANCH
SCHOOL OF INFORMATION SCIENCE
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS**

**DIPLOMA IN INFORMATIC LIBRARY (CDIM 144)
IML208: PROGRAMMING FOR LIBRARY**

**GROUP PROJECT
DRIVING SCHOOL BOOKING**

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Prepared for:

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Submission date:

16 JANUARY 2024

DRIVING SCHOOL BOOKING

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CDIM 144 – DIPLOMA IN INFORMATIC LIBRARIES

SCHOOL OF INFORMATION SCIENCE

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA (UITM)

KEDAH BRANCH

ACKNOWLEDGEMENT

Thank God Almighty, we were able to complete this assignment without encountering any additional problems. We give Him thanks for the peace He gave us while we finished this project as well as for the inspiration and thoughts that seemed to come to me while I was writing it. We would also want to thank our lecturer, Sir Airul, for all of his assistance and guidance when we were struggling to finish this project. We shall always be appreciative of all the knowledge and lessons he gives us and our peers. His advice and wisdom are what keep us going while we're on duty.

We would also want to thank our amazing CDIM1443E classmates for their help and encouragement during Sir's absence. We sincerely thank each and every one of these individuals for their cooperation in enabling us to complete our assignment as effectively as possible. Finally, we would want to thank our parents, without whose constant prayers and support, we could not even be here having survived. We then wished a good day to each and every person mentioned here.

1.0 INTRODUCTION

For this group project, we chose **Driving Lesson Booking** as our chosen title. This project consists of main menu, which is the main page for the other three python code, which is, again, work as user information, that contains name, IC number, address, gender, and age. Next is the instructor information, which contains car number, any kind of test, gender, and license type.

For the last one, we got license payment that contains license type, extra class, payment method, and total payment. All of these three-python codes actually also consist of update and delete button which function to update and delete the data. Also, in this making of python, we did refer to the syllabus that we have learned before in our class as well as did our own research for this project.

2.0 PROBLEM STATEMENT

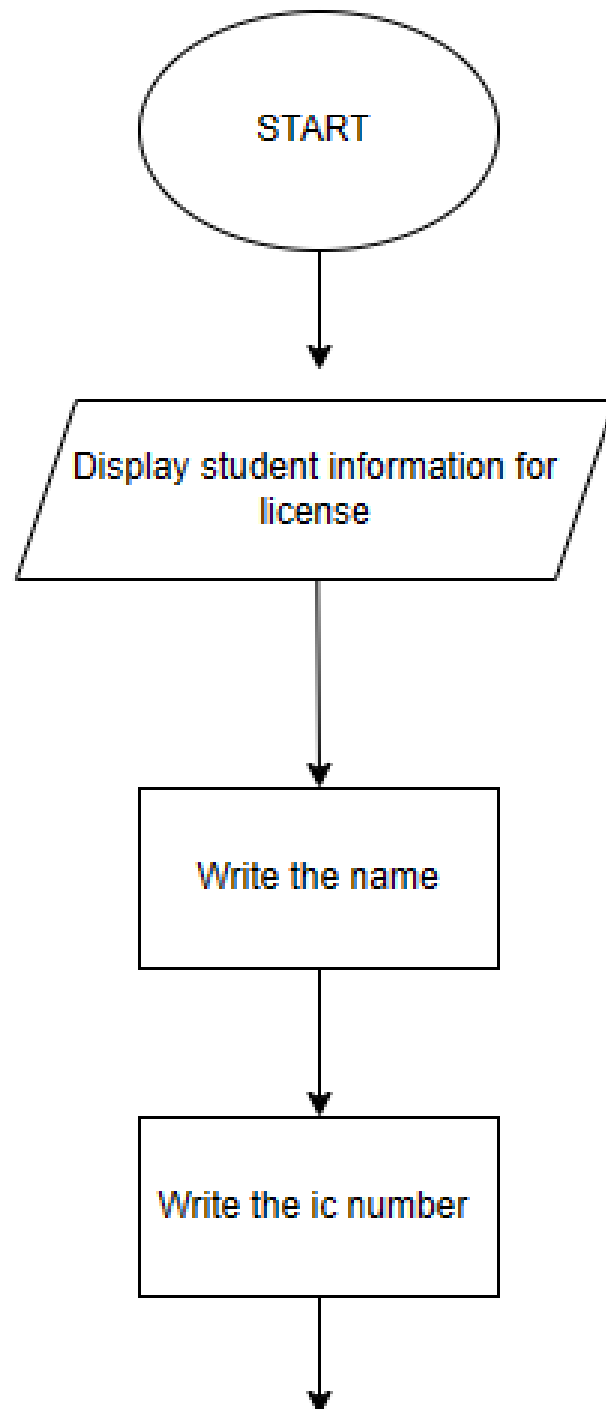
For this project, our website would ease the users to book a driving lesson to get their driving licenses. Since nowadays, we are living in a modern world surrounded by technologies and everything is just one click away on the screen. Other than that, by utilizing this website, we also simply simplify users process to book a driving lesson and get their driving license.

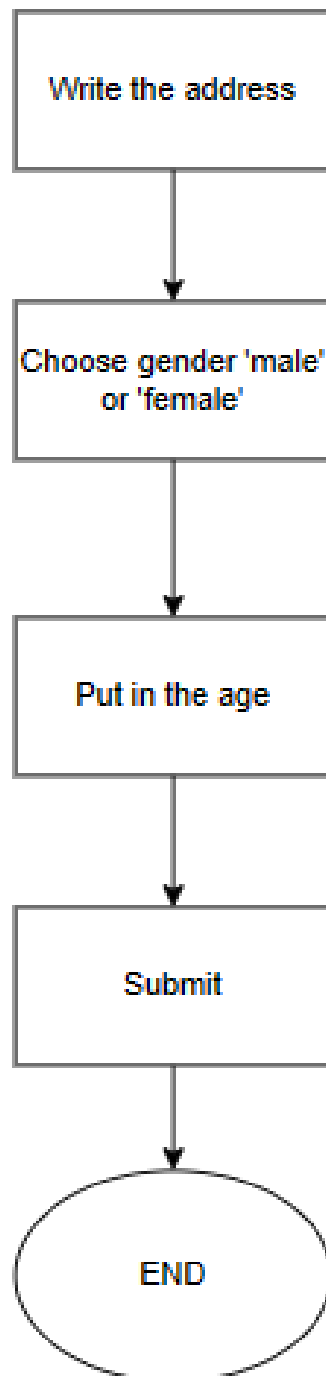
3.0 OBJECTIVES

- To ease user's registration for driving license.
- Modernizing the services for driving lesson booking.
- Simplify the booking process for the young generation.
- Users easily apply driving lesson on the internet and no need to physically come to the department to register.

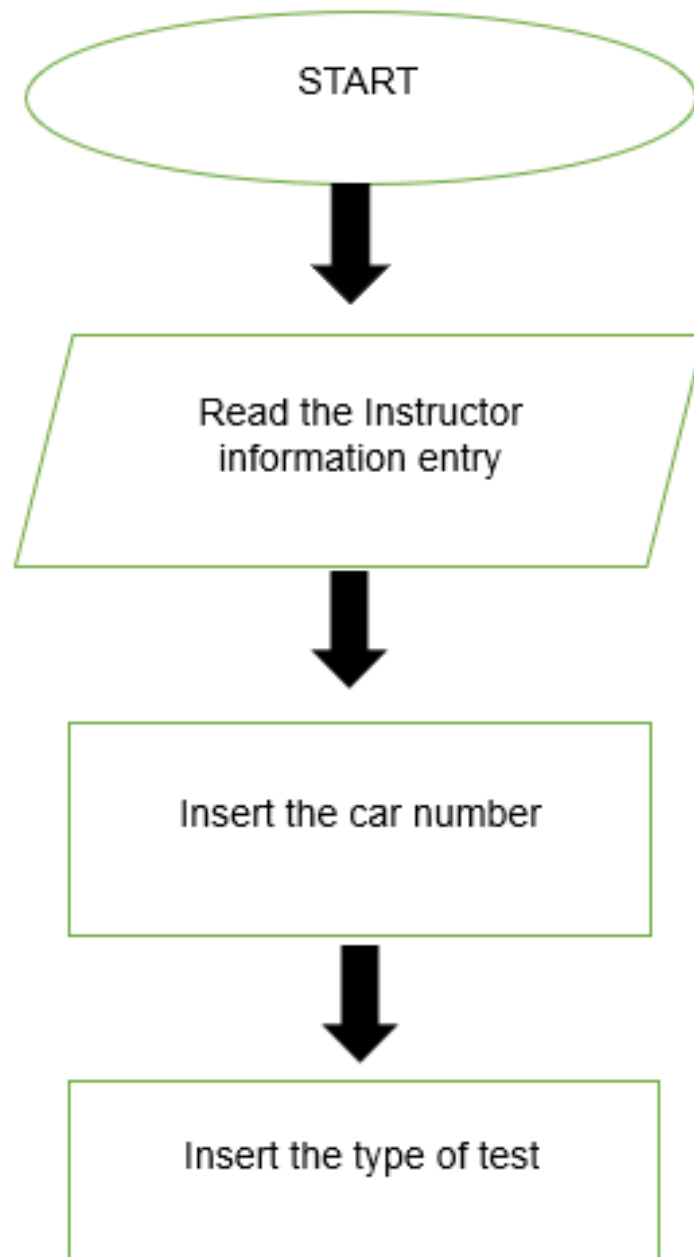
4.0 FLOWCHART

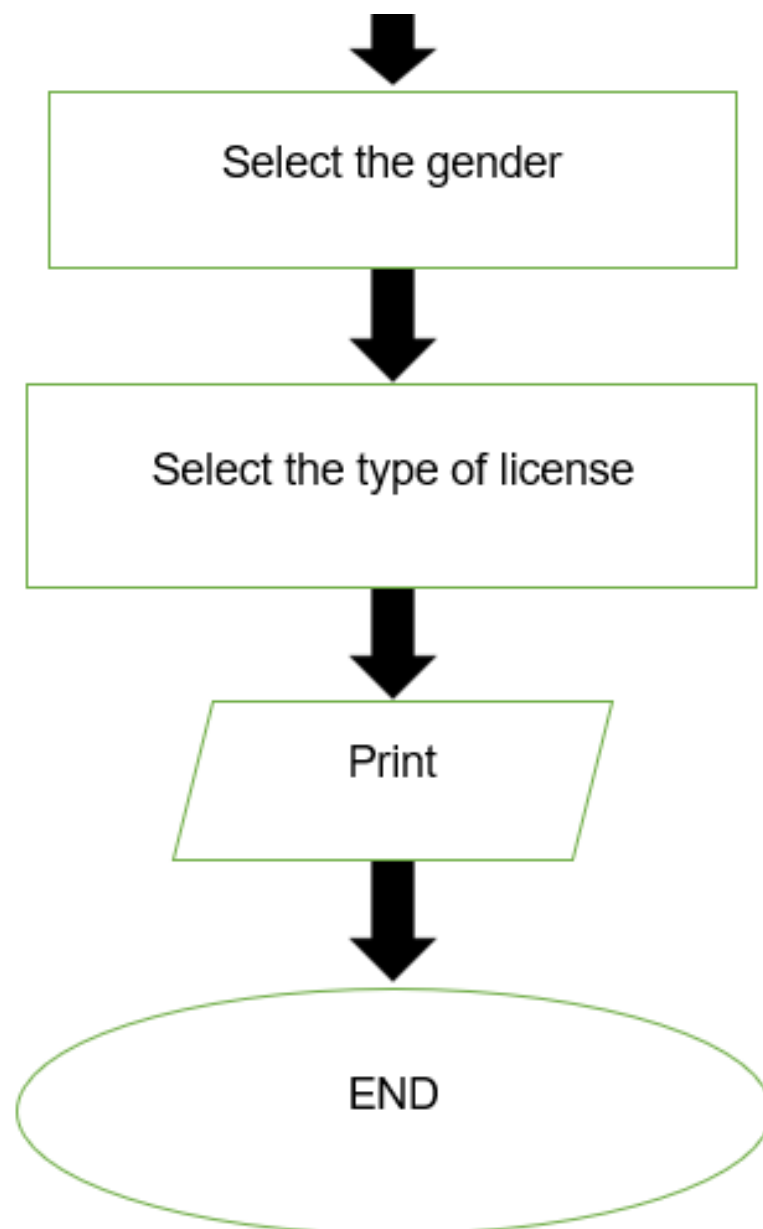
4.1 Flowchart for student information.



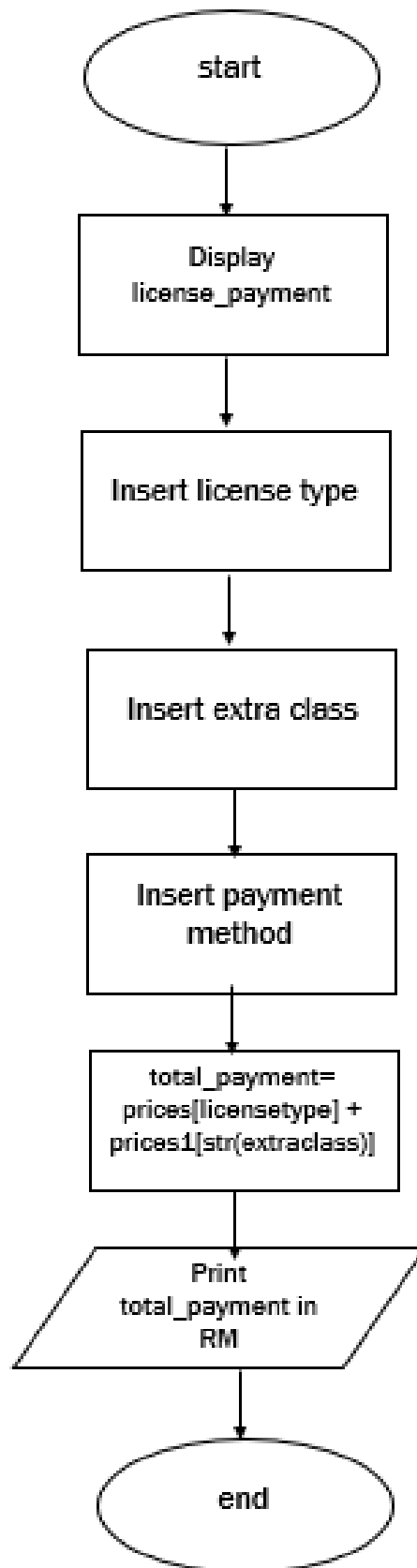


4.2 Flowchart for instructor information.

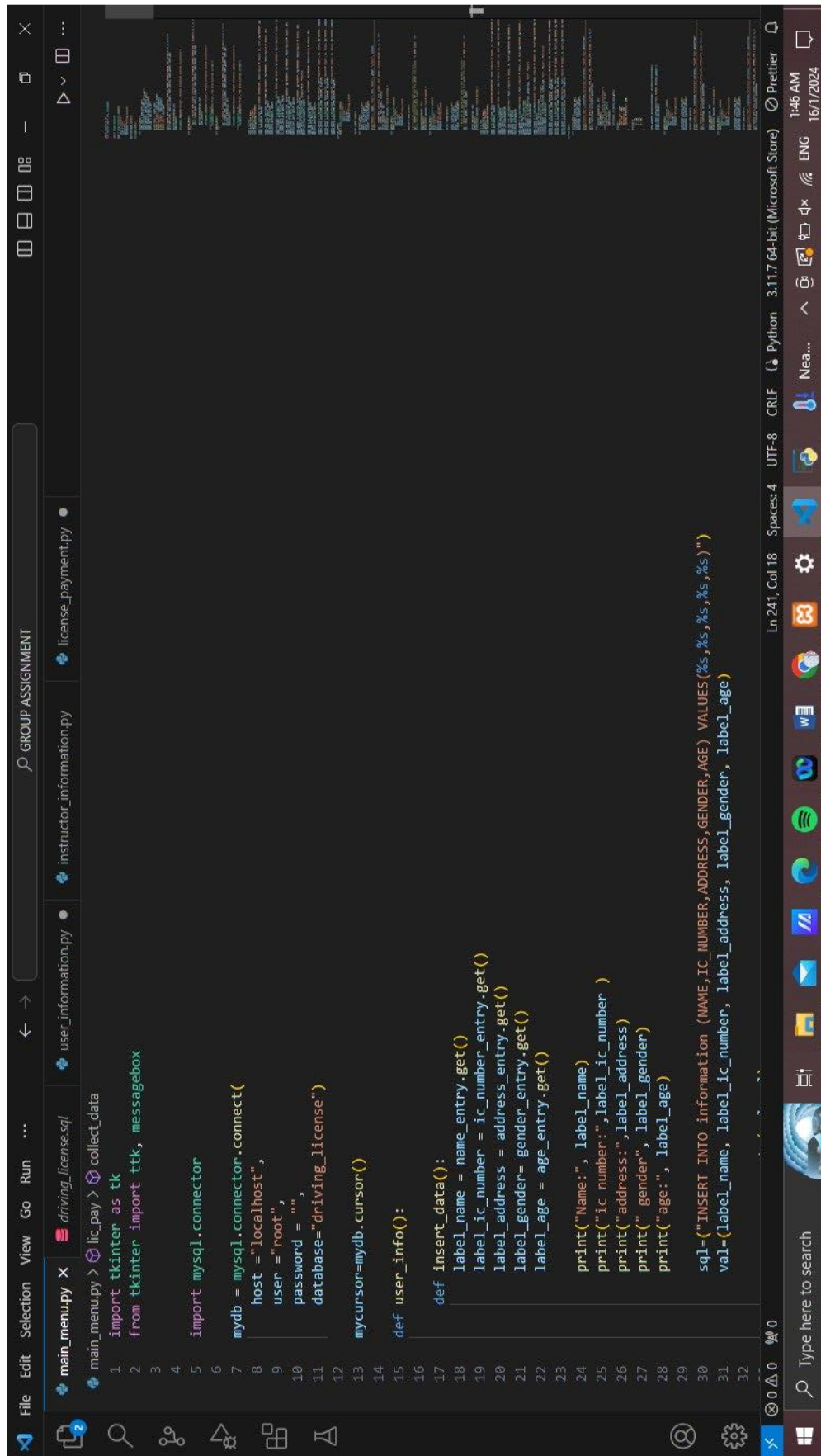




4.3 Flowchart for license payment.



5.0 SNAPSHOT OF CODE



```
File Edit Selection View Go Run ...  
main_menu.py X driving_license.sql user_information.py license_payment.py  
main_menu.py > lic.pay > collect_data  
1 import tkinter as tk  
2 from tkinter import ttk, messagebox  
3  
4  
5 import mysql.connector  
6  
7 mydb = mysql.connector.connect(  
8     host = "localhost",  
9     user = "root",  
10    password = "",  
11    database = "driving_license")  
12  
13 mycursor = mydb.cursor()  
14  
15 def user_info():  
16  
17 def insert_data():  
18     label_name = name_entry.get()  
19     label_ic_number = ic_number_entry.get()  
20     label_address = address_entry.get()  
21     label_gender = gender_entry.get()  
22     label_age = age_entry.get()  
23  
24     print("Name:", label_name)  
25     print("ic number:", label_ic_number )  
26     print("address:", label_address)  
27     print("gender", label_gender)  
28     print("age:", label_age)  
29  
30     sql = ("INSERT INTO information (NAME, IC_NUMBER, ADDRESS, GENDER, AGE) VALUES (%s, %s, %s, %s, %s)")  
31     val = (label_name, label_ic_number, label_address, label_gender, label_age)  
32
```

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GROUP ASSIGNMENT

main_menu.py X

driving_license.sql

main_menu.py > lic_pay > collect_data

user_information.py

instructor_information.py

license_payment.py

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

messagebox.showinfo("Success", "Student information inserted successfully!")

def delete_data():
    try:
        sql = ("DELETE FROM student information (NAME,IC NUMBER,ADDRESS,GENDER,AGE, ) VALUES (%s,%s,%s,%s,%s)")
        val = (label_name, label_ic_number, label_address, label_gender, label_age)
        mycursor.execute(sql, val)
        mydb.commit()

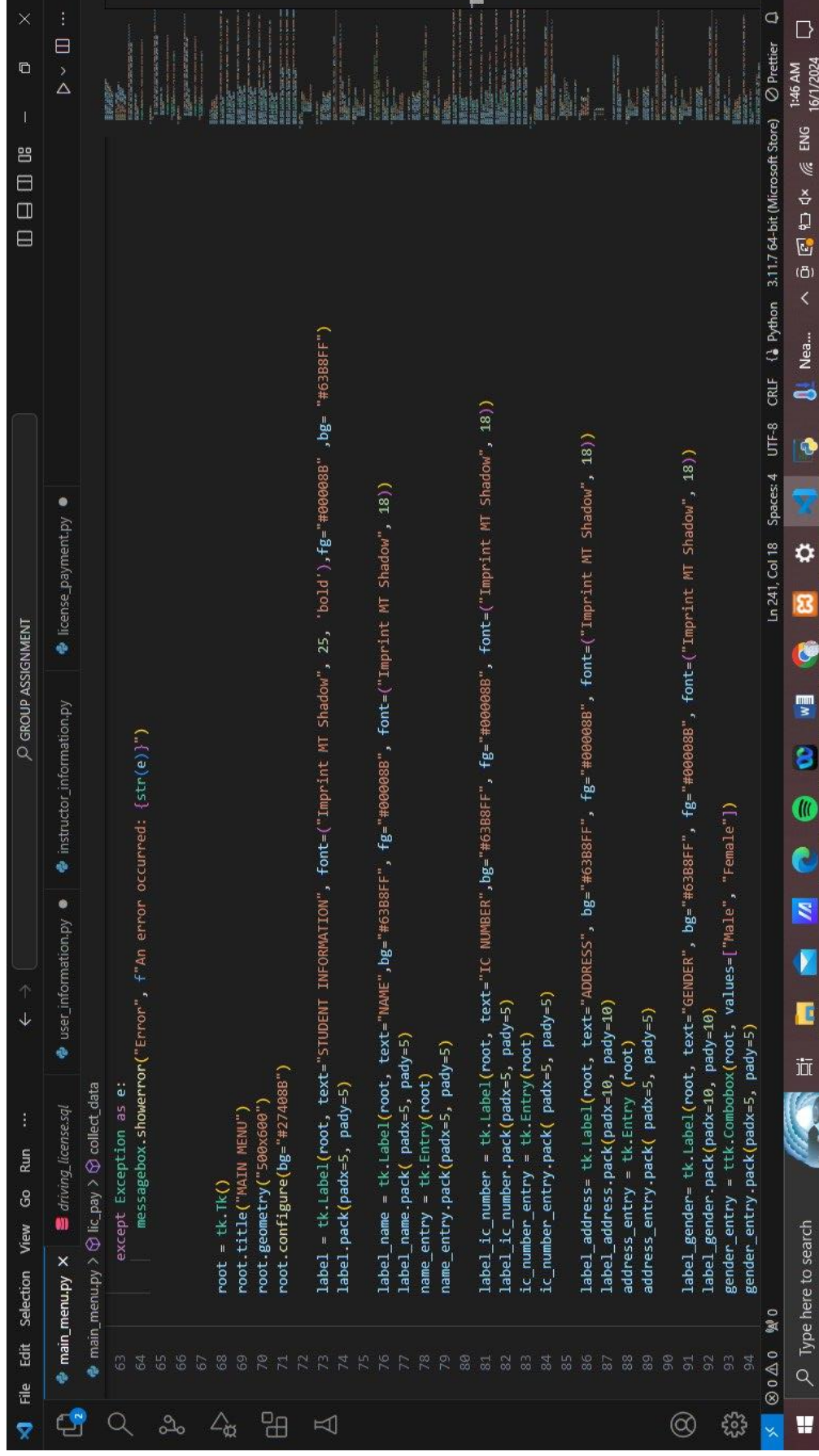
        messagebox.showinfo("Success", "Student information deleted successfully!")
    except Exception as e:
        messagebox.showerror("Error", f"An error occurred: {str(e)}")

def update_data():
    try:
        sql = ("UPDATE student information (NAME,IC NUMBER,ADDRESS,GENDER,AGE, ) VALUES (%s,%s,%s,%s,%s)")
        val =(label_name, label_ic_number, label_address, label_gender, label_age)
        mycursor.execute(sql, val)
        mydb.commit()

        messagebox.showinfo("Success", "Student information updated successfully!")
    except Exception as e:
        messagebox.showerror("Error", f"An error occurred: {str(e)}")
```

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Ln 241, Col 18 Spaces: 4 UTF-8 CRLF Python 3.11.7 64-bit (Microsoft Store) Prettier 1:46 AM 16/1/2024



FileEditSelectionViewGoRun...

GROUP ASSIGNMENT

main_menu.py X

driving_licenses.sql

main_menu.py > lic_pay > collect_data

user_information.py

license_payment.py

91label_gender= tk.Label(root, text="GENDER", bg="#6388FF", fg="#00008B", font=("Imprint MT Shadow", 18))

92label_gender.pack(padx=10, pady=10)

93gender_entry = ttk.Combobox(root, values=["Male", "Female"])

94gender_entry.pack(padx=5, pady=5)

95

96label_age = tk.Label(root, text="AGE", bg="#6388FF", fg="#00008B", font=("Imprint MT Shadow", 18))

97label_age.pack(padx=5, pady=5)

98age_entry = tk.Entry(root)

99age_entry.pack(padx=5, pady=5)

100

101submit_button = tk.Button(root, text="Submit", font=("Imprint MT Shadow", 15, 'bold'), bg='#6495ED', command=insert_data)

102submit_button.place(x=100, y=500, width=80, height=50)

103

104delete_button = tk.Button(root, text="Delete", font=("Imprint MT Shadow", 15, 'bold'), bg='#6495ED', command=delete_data)

105delete_button.place(x=200, y=500, width=80, height=50)

106

107update_button = tk.Button(root, text="Update", font=("Imprint MT Shadow", 15, 'bold'), bg='#6495ED', command=update_data)

108update_button.place(x=300, y=500, width=80, height=50)

109

110def ins_info():

111mydb = mysql.connector.connect(

112 host="localhost",

113 user="root",

114 password="",

115 database="driving_license"

116)

117

118cursor = mydb.cursor()

119

120def collect_data():

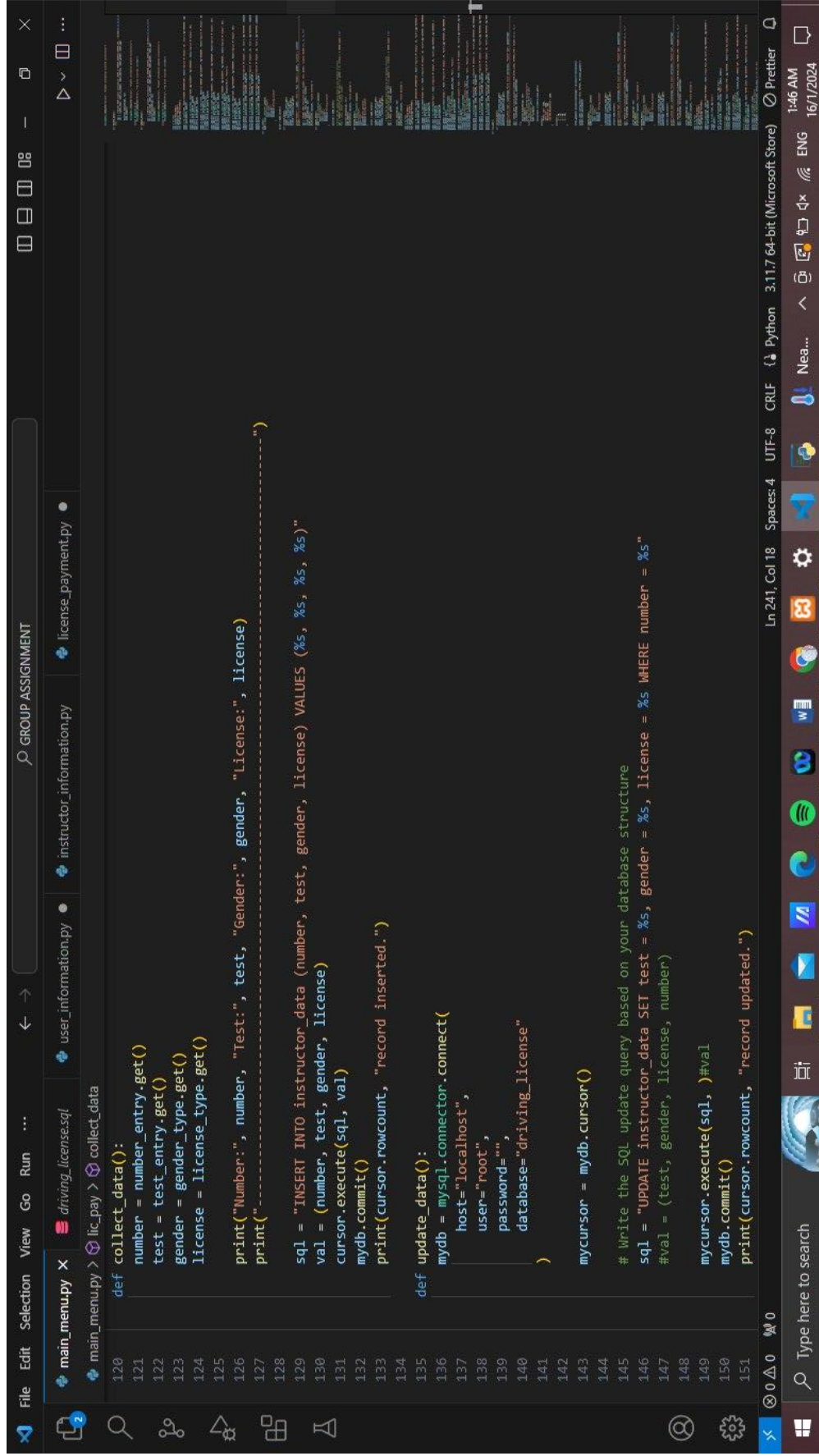
121 number = number_entry.get()

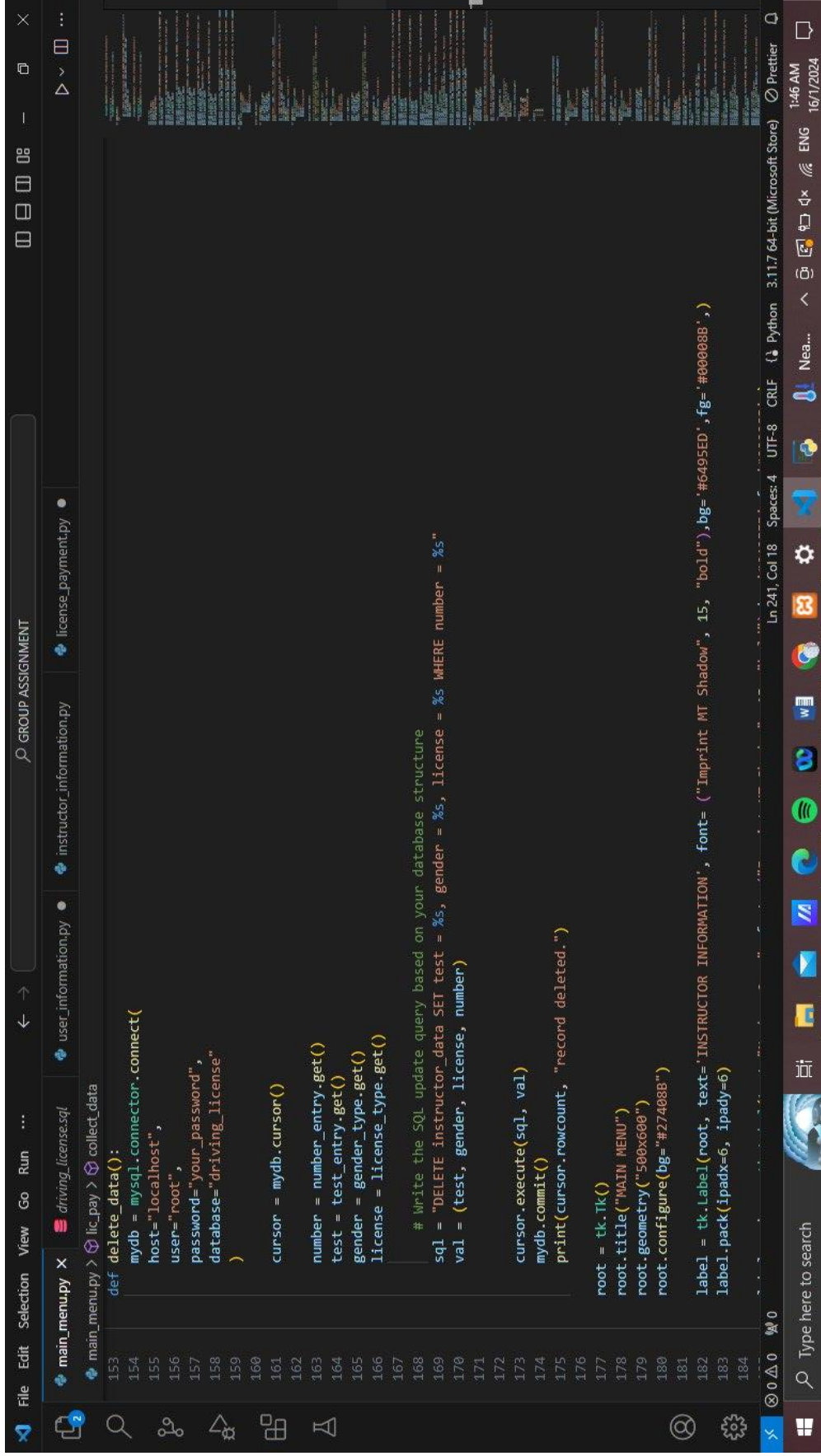
122 test = test_entry.get()

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```
File Edit Selection View Go Run ... GROUP ASSIGNMENT
main_menu.py X driving_licenses.sql license_payment.py •
main_menu.py > lic_pay > collect_data
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185 label_number = tk.Label(text="Number Car:", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B',)
186 label_number.pack(padx=5)
187 number_entry = tk.Entry()
188 number_entry.pack(pady=10)
189
190 label_test = tk.Label(text="Test:", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B',)
191 label_test.pack(padx=5)
192 test_entry = tk.Entry()
193 test_entry.pack(pady=10)
194
195 label_gender = tk.Label(text="Gender:", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B',)
196 label_gender.pack()
197 gender_type = tk.StringVar(root)
198 gender_type.set("Select gender")
199 gender_dropdown = tk.OptionMenu(root, gender_type, "Male", "Female")
200 gender_dropdown.pack(pady=10)
201
202 label_license = tk.Label(text="License's Type:", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B',)
203 label_license.pack()
204 license_type = tk.StringVar(root)
205 license_type.set("Select your License's Type")
206 license_dropdown = tk.OptionMenu(root, license_type, "Manual", "Motorcycle")
207 license_dropdown.pack(pady=10)
208
209 button_done = tk.Button(root, text="Done", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B', command=collect_data)
210 button_done.place(x=100, y=300, width=80, height=50)
211
212 button_update = tk.Button(root, text="Update", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B', command=update_data)
213 button_update.place(x=200, y=300, width=80, height=50)
214
215 button_delete = tk.Button(root, text="Delete", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B', command=delete_data)
216 button_delete.place(x=300, y=300, width=80, height=50)
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```

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main_menu.py ×driving_licenses.sqlcollect_data

main_menu.py > lic_pay > collect_data

```
215 button_delete = tk.Button(root, text="Delete", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B', command=delete_data)
216 button_delete.place(x=300, y=300, width=80, height=50)
217
218 def lic_pay():
219
220     def collect_data():
221         licensetype= license_type.get()
222         extraclass= extra_class.get()
223         paymenttype = payment_type.get()
224
225         print("License Type", licensetype,"Extra Class",extraclass, "Payment Type", paymenttype)
226         print("-----")
227
228         sql= "INSERT INTO license_payment(LICENSE_TYPE,EXTRA_CLASS, PAYMENT_TYPE ) VALUES (%s,%s, %s,)"
229         val= ( licensetype, extraclass, paymenttype)
230
231         try:
232             mycursor.execute(sql, val)
233             mydb.commit()
234             print("Data inserted successfully!")
235         except mysql.connector.Error as err:
236             print(f"Error: {err}")
237             mydb.rollback()
238
239         extraclass= int(extra_class.get())
240
241         prices= {
242             "MANUAL CAR": 1300,
243             "AUTO CAR" : 1500,
244             "MOTORCYCLE": 450,
245             "CAR AND MOTORCYCLE": 1800,
246         }
```


FileEditSelectionViewGoRun...<→GROUP ASSIGNMENT

main_menu.py ×driving_license.sqllic_pay > collect_data

main_menu.py ×user_information.pyinstructor_information.pylicense_payment.py

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```
prices1= {  
    '1': 10,  
    '2': 20,  
    '3': 30,  
    '4': 40,  
}  
  
total_payment= prices[licensetype] + prices1[str(extraclass)]  
  
output_label.config(text=f"TOTAL PAYMENT: RM{total_payment}")  
output_label.pack(pady=5)  
  
def update_data():  
    mydb=mysql.connector.connect(  
        host="localhost",  
        user= "root",  
        password= "",  
        database= "driving_license"  
    )  
  
    licensetype= license_type.get()  
    extraclass= extra_class.get()  
    paymenttype = payment_type.get()  
  
    cursor= mydb.cursor()  
  
    print("License Type", licensetype,"Extra Class",extraclass, "Payment Type", paymenttype)  
    print("-----")
```

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Windows Taskbar

FileEditSelectionViewGoRun...

GROUP ASSIGNMENT

main_menu.py xdriving_license.sqluser_information.pyinstructor_information.pylicense_payment.py

main_menu.py > lic_pay > collect_data

2774275276277278279280281282283284285286287288289290291292293294295296297298299300301302303304305306

```
cursor= mydb.cursor()

print("License Type", licensetype,"Extra Class",extraclass, "Payment Type", paymenttype)
print("-----")

sql= "UPDATE INTO license_payment(LICENSE_TYPE,EXTRA_CLASS, PAYMENT_TYPE) VALUES (%s,%s, %s)"
val= ( licensetype, extraclass, paymenttype)

cursor.execute(sql, val)
mydb.commit()
print(cursor.rowcount, "record updated.")

def delete_data():
    mydb=mysql.connector.connect(
        host="localhost",
        user= "root",
        password= "",
        database= "driving_license"
    )

    licensetype= license_type.get()
    extraclass= extra_class.get()
    paymenttype = payment_type.get()

    cursor= mydb.cursor()

    print("License Type", licensetype,"Extra Class",extraclass, "Payment Type", paymenttype)
    print("-----")

    sql= "DELETE INTO license_payment(LICENSE_TYPE,EXTRA_CLASS, PAYMENT_TYPE ) VALUES (%s,%s, %s,)"
    val= ( licensetype, extraclass, paymenttype)
```

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FileEditSelectionViewGoRun...<=>GROUP ASSIGNMENT

main_menu.py Xdriving_license.sqllic_pay > collect_data

user_information.pyinstructor_information.pylicense_payment.py

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```
305 sql= "DELETE INTO license_payment(LICENSE_TYPE,EXTRA_CLASS, PAYMENT_TYPE ) VALUES (%s,%s, %s),"
306 val= ( licensetype, extraclass, paymenttype)
307
308 cursor.execute(sql, val)
309 mydb.commit()
310 print(cursor.rowcount, "record deleted.")
311
312
313 root = tk.Tk()
314 root.title("MAIN MENU")
315 root.geometry("500x600")
316 root.configure(bg="#27408B")
317
318 label=tk.Label(root, text='LICENSE PAYMENT', font= ("Input Mono",30,"bold"),fg= "#00008B", bg= '#638BFF')
319 label.pack(padx=20, pady=10)
320
321 frame= tk.Frame (root, bg='blue')
322 frame.pack()
323
324 info = tk.LabelFrame(frame, text="", bg='blue')
325 info.grid(row=0, column=1, sticky= "News", padx=1, pady=1)
326
327 #license type
328 license_label=tk.Label(info, text= "LICENSE TYPE", bg= '#6495ED', font= ("Times New Roman",15, "bold"))
329 license_label.pack(padx=5)
330
331 license_type= tk.StringVar (root)
332 license_type.set ("Select License")
333 license_dropdown= tk.OptionMenu(info, license_type, "MANUAL CAR", "AUTO CAR", "MOTORCYCLE", "CAR AND MOTORCYCLE")
334 license_dropdown.pack(pady=10)
335
336 #extra class
```


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←→

GROUP ASSIGNMENT

main_menu.py Xdriving_license.sql

main_menu.py > lic_pay > collect_data

user_information.py

instructor_information.py

license_payment.py

336#extra class

337extra_label=tk.Label(info, text= "EXTRA CLASS", bg= '#6495ED', font= ("Times New Roman", 15, "bold"))

338extra_label.pack(padx=5)

339

340extra_class= tk.StringVar (root)

341extra_class.set ("Select Extra Class")

342extra_dropdown= tk.OptionMenu(info, extra_class, "1", "2", "3", "4")

343extra_dropdown.pack(pady=10)

344

345

346

347# payment method

348payment_label= tk.Label(info, text="PAYMENT METHOD", bg= '#6495ED', font= ("Times New Roman", 15, "bold"))

349payment_label.pack(padx=5)

350

351payment_type= tk.StringVar (root)

352payment_type.set ("Select Payment Method")

353payment_dropdown= tk.OptionMenu(info, payment_type, "cash", "card", "online banking")

354payment_dropdown.pack(pady=5)

355

356#SAVE BUTTON

357payment_total= tk.Button(info, text= "TOTAL PAYMENT", font= ("Times New Roman", 15, "bold"),bg= '#6495ED', command=collect_data)

358payment_total.pack(pady=10)

359

360#output

361label= tk.Label(info, text='TOTAL', bg= '#6495ED',font= ("Times New Roman", 15, "bold"))

362label.pack(ipadx=10,ipady=10)

363

364output_label= tk.Label(info, text="")

365output_label.pack()

366

367button_update= tk.Button(root, text="Update", font= ("Imprint MT Shadow", 15, "bold"),bg= '#6495ED',fg= '#00008B', command=update_data)

368button_update.pack(pady=10)

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Prettier

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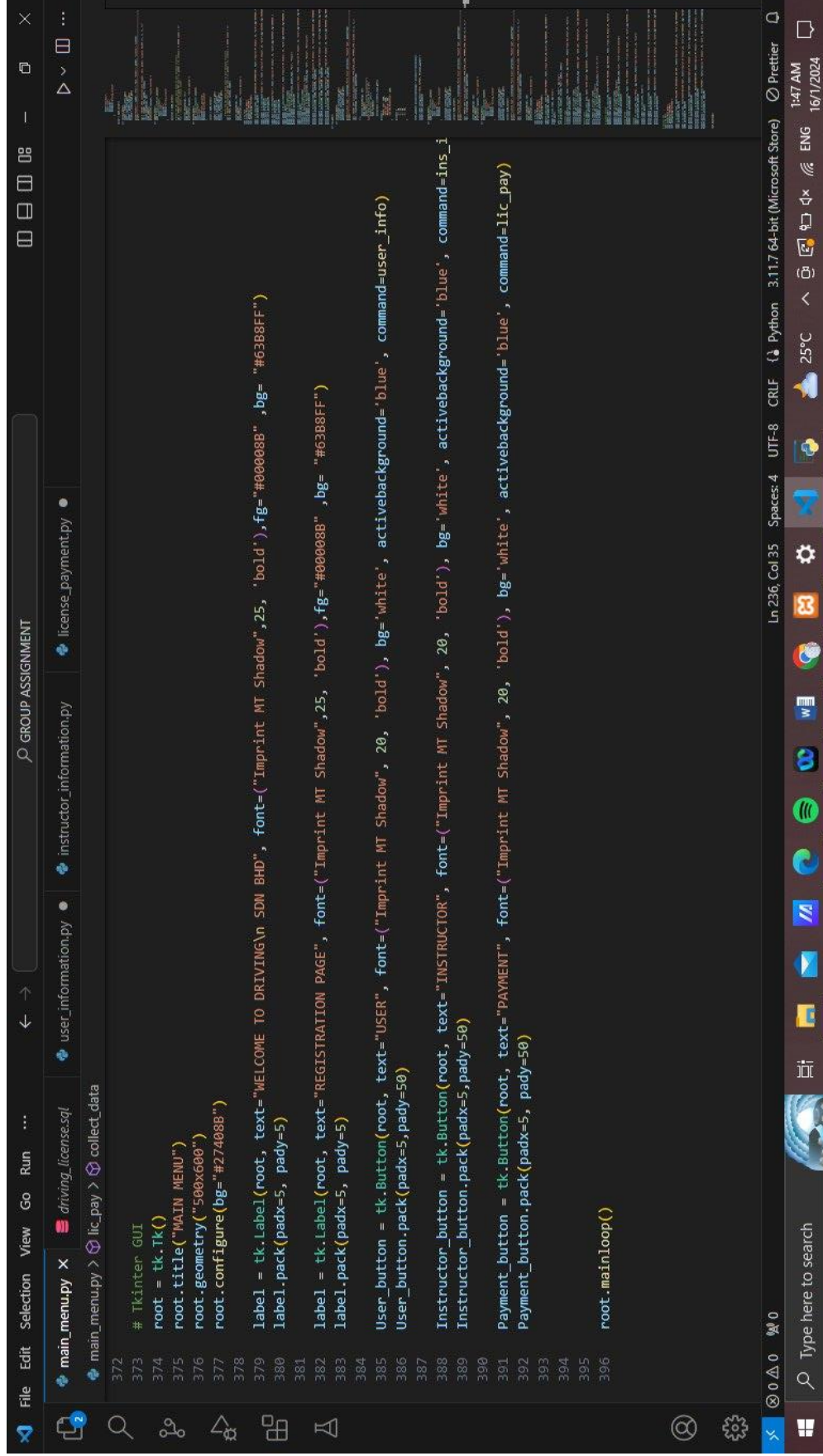
16/7/2024

Type here to search

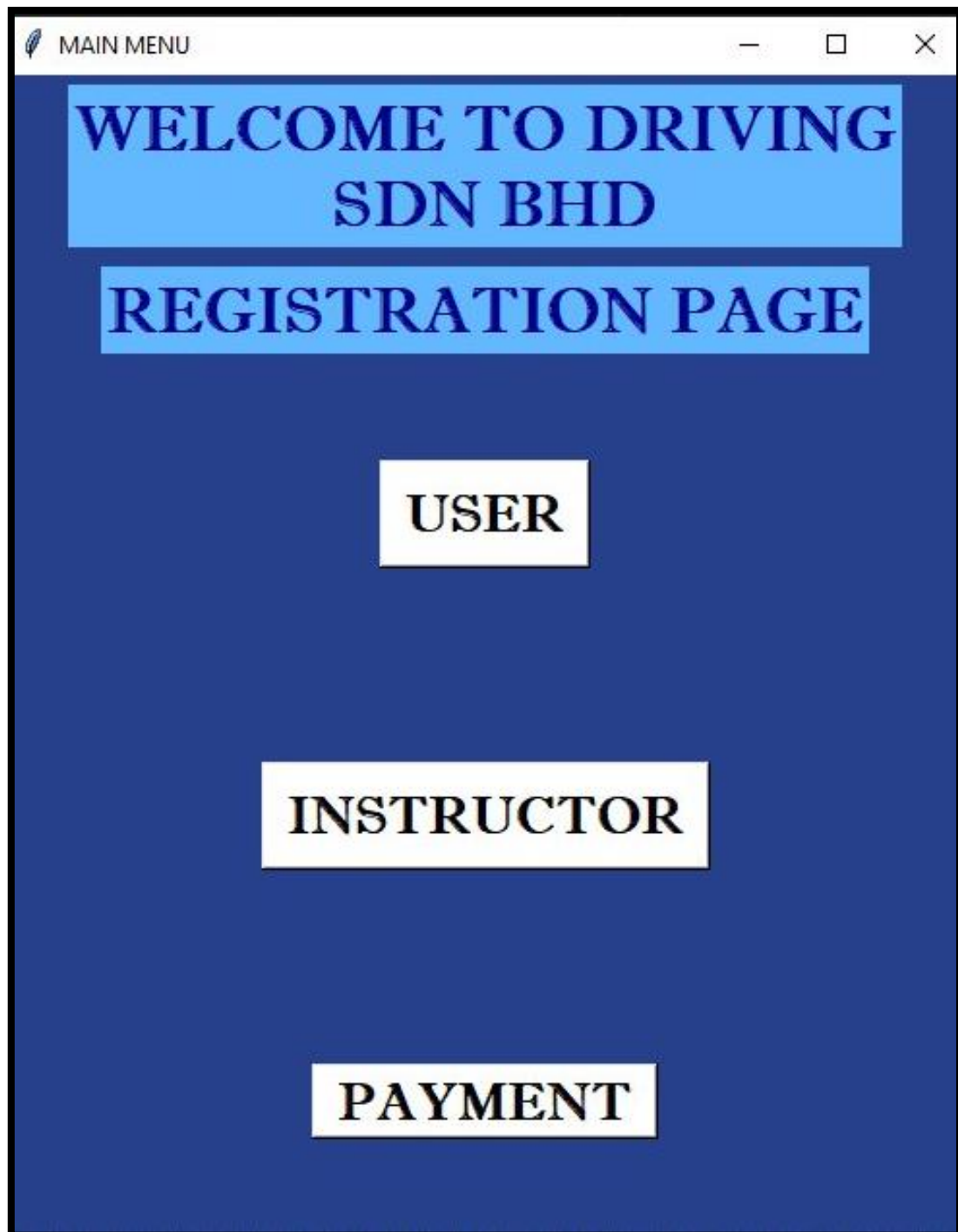
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16/7/2024



6.0 SNAPSHOT OF GUI





STUDENT INFORMATION

NAME

IC NUMBER

ADDRESS

GENDER

AGE


Submit


Delete

Update



INSTRUCTOR INFORMATION

Select gender 

Select your License's Type 

Done


Update

Delete




LICENSE PAYMENT


LICENSE TYPE

Select License 

EXTRA CLASS

Select Extra Class 

PAYMENT METHOD

Select Payment Method 

TOTAL PAYMENT

TOTAL



Update

Delete

7.0 SNAPSHOT OF DATABASE

localhost / 127.0.0.1 / driving_license

phpMyAdmin

Recent

crochet_purchase

driving_license

New

instructor_information

license_payment

user_information

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

Database: driving_license » Table: user_information

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

More

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

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds)

SELECT * FROM `user_information`

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

☐ Show all

Number of rows: 25

Filter rows: Search this table

Extra options

NAME	IC_NUMBER	ADDRESS	GENDER	AGE
alip	2147483647	kedah	Female	34

☐ Show all

Number of rows: 25

Filter rows: Search this table

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

Label:

☐ Let every user access this bookmark

Console

Type here to search

1:42 AM 16/1/2024

phpMyAdmin

Recent

Favorites

localhost / 127.0.0.1

driving_license

×

+

Server: 127.0.0.1

Database: driving_license

Structure

SQL

Search

Query

Export

Import

Operations

Privileges

Routines

Events

More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> instructor_information	Browse Structure Search Empty Insert Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> license_payment	Browse Structure Search Empty Insert Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> user_information	Browse Structure Search Empty Insert Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
3 tables	Sum	1	InnoDB	utf8mb4_general_ci	48.0 KiB	0 B

☐ Check all

With selected:

Print

Data dictionary

Create new table

Table name

Number of columns

4

Create

Console

New

crochet_purchase

driving_license

New

instructor_information

license_payment

user_information

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

localhost/127.0.0.1 / driving_license x +

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=driving_license&table=instrutor_information

Server: 127.0.0.1 » Database: driving_license » Table: instrutor_information

BrowseStructureSQLSearchInsertExportImportPrivilegesOperationsTrackingMore

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

SELECT * FROM `instrutor_information`

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

Show allNumber of rows: 25Filter rows: Search this table

Extra options

number	test	gender	license
0		Male	Auto

Show allNumber of rows: 25Filter rows: Search this table

Query results operations

PrintCopy to clipboardExportDisplay chartCreate view

Bookmark this SQL query

Label:

Let every user access this bookmark

Bookmark this SQL query

Console

phpMyAdmin

RecentFavorites

New

crochet_purchase

driving_license

New

instrutor_information

license_payment

user_information

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

2:03 AM

16/7/2024

ENG

25°C

Type here to search

localhost / 127.0.0.1 / driving_license

localhost/phpmyadmin/index.php?route=/sql&db=driving_license&table=license_payment&pos=0

Server: 127.0.0.1 » Database: driving_license » Table: license_payment

BrowseStructureSQLSearchInsertExportImportPrivilegesOperationsTrackingMore

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

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

SELECT * FROM `license_payment`

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

Show allNumber of rows: 25Filter rows: Search this table

Extra options

LICENSE_TYPE	EXTRA_CLASS	PAYMENT_TYPE
AUTO CAR		2 online banking

Show allNumber of rows: 25Filter rows: Search this table

Query results operations

PrintCopy to clipboardExportDisplay chartCreate view

Bookmark this SQL query

Label:

☐ Let every user access this bookmark

Console

phpMyAdmin

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license_payment

user_information

information_schema

mysql

performance_schema

phpmyadmin

python_example

test

Type here to search

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CONCLUSION

To summarise, we learned a lot from working on this group project. We successfully finished and completed the three modules that we struggled with. Aside from that, we learned and improved our key abilities in software development. Furthermore, the combination of the three modules has motivated and enabled us to design efficient and user-friendly apps. This experience not only gives us technical skills, but it also gives us confidence in our capacity to face real-world projects. Thank you.