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

PROGRAMMING FOR LIBRARIES
(IML208)

INDIVIDUAL ASSIGNMENT:
PROGRAMMING ON PYTHON FOR CAT TREATMENT

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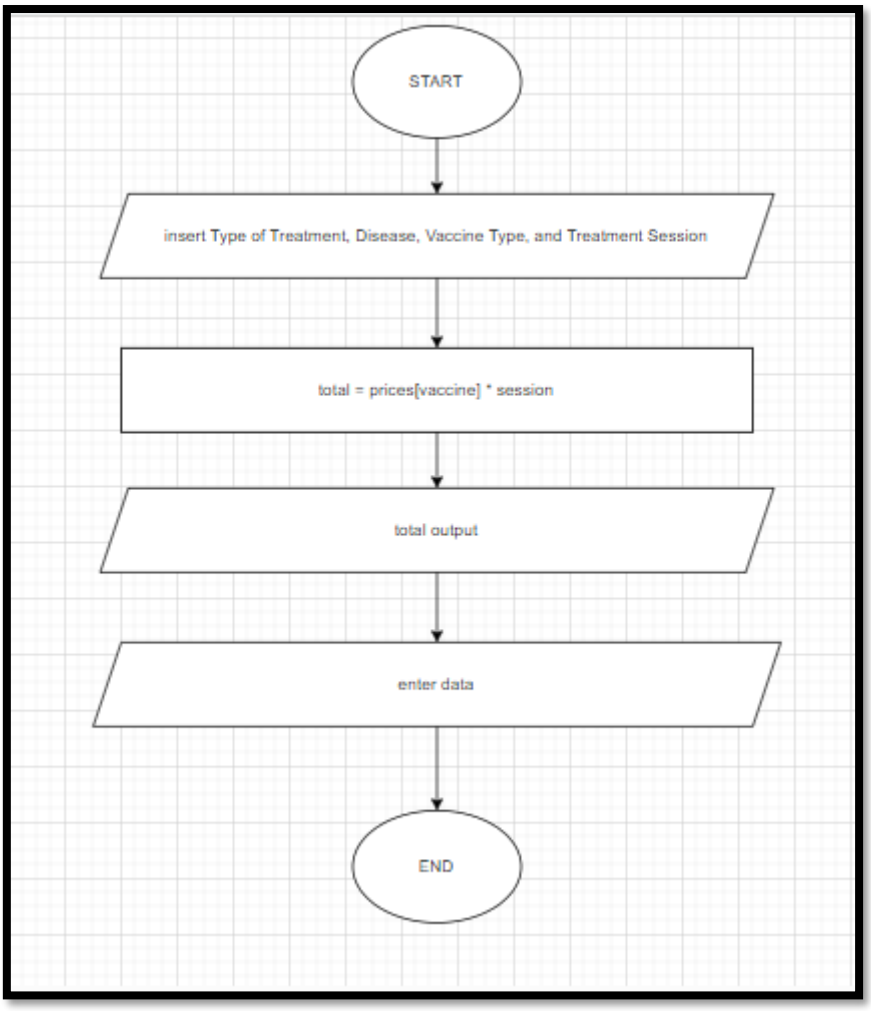
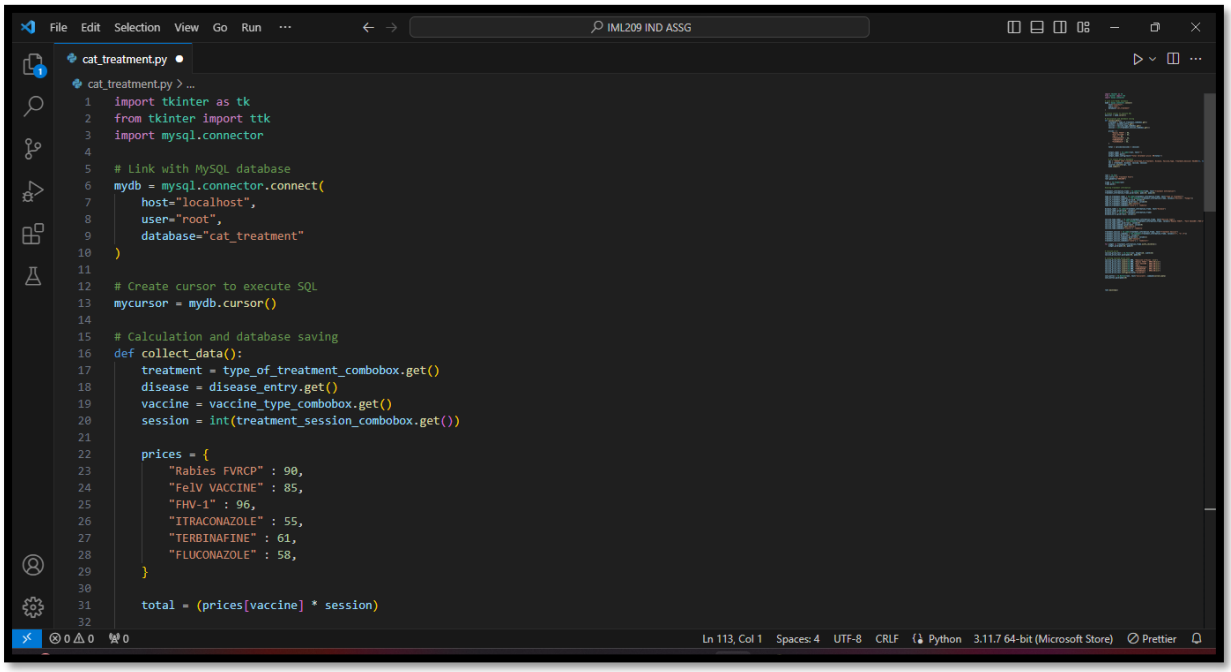
1.0 INTRODUCTION

I choose cat treatment to do my programming is to make thing easy and organize that can help the cat hotel staff and the cat owner. There were many problems that occurred in the past with an unorganized data and missing data until there a mistake that happen to the cat. For example, the treatment should be done to the other cat but it be done on different cat. This will occur a problem to the staff or maybe the cat owner will sue the cat hotel towards the problem that occur. With this programming, it can help the data be more organized and the treatment will be done smoothly with no mistakes and problem occur.

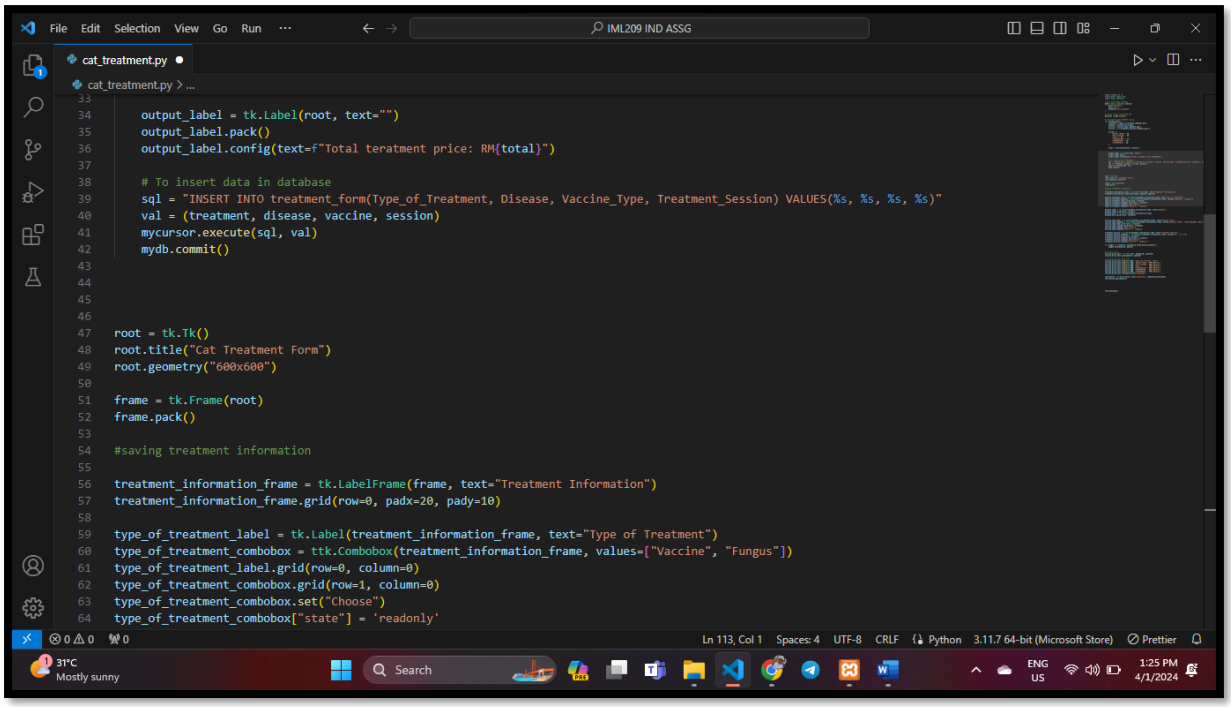
2.0 FLOWCHART



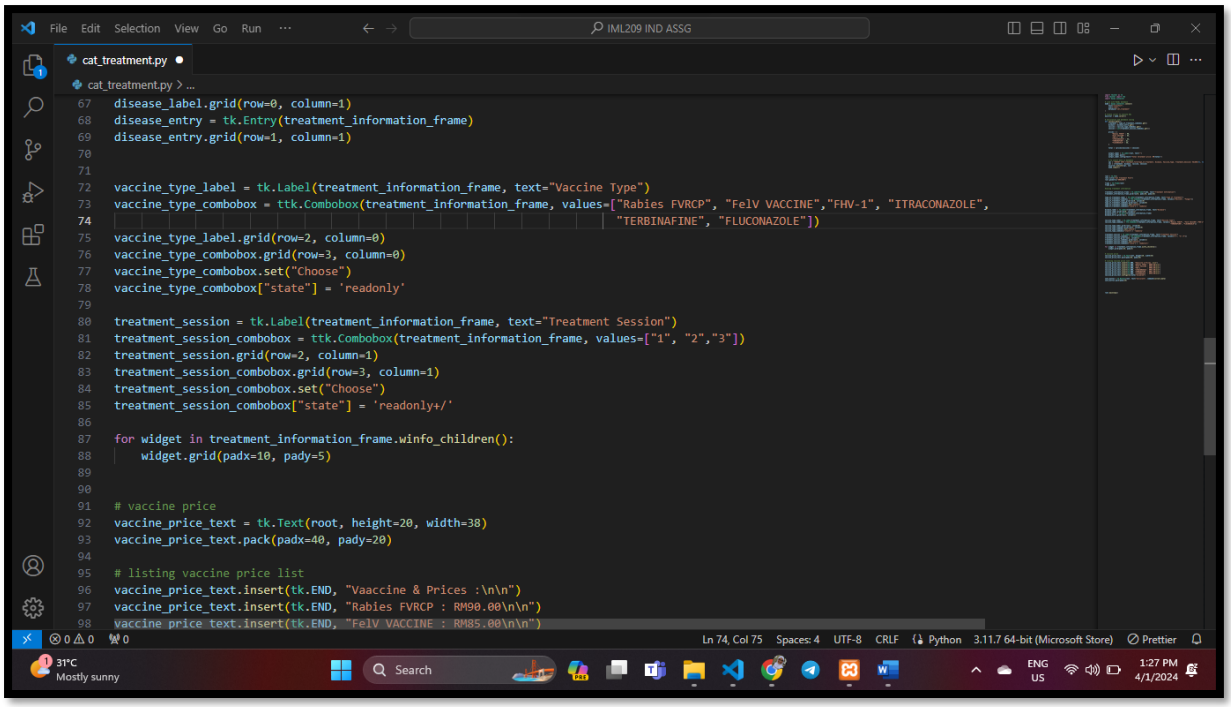
3.0 SNAPSHOT OF CODE



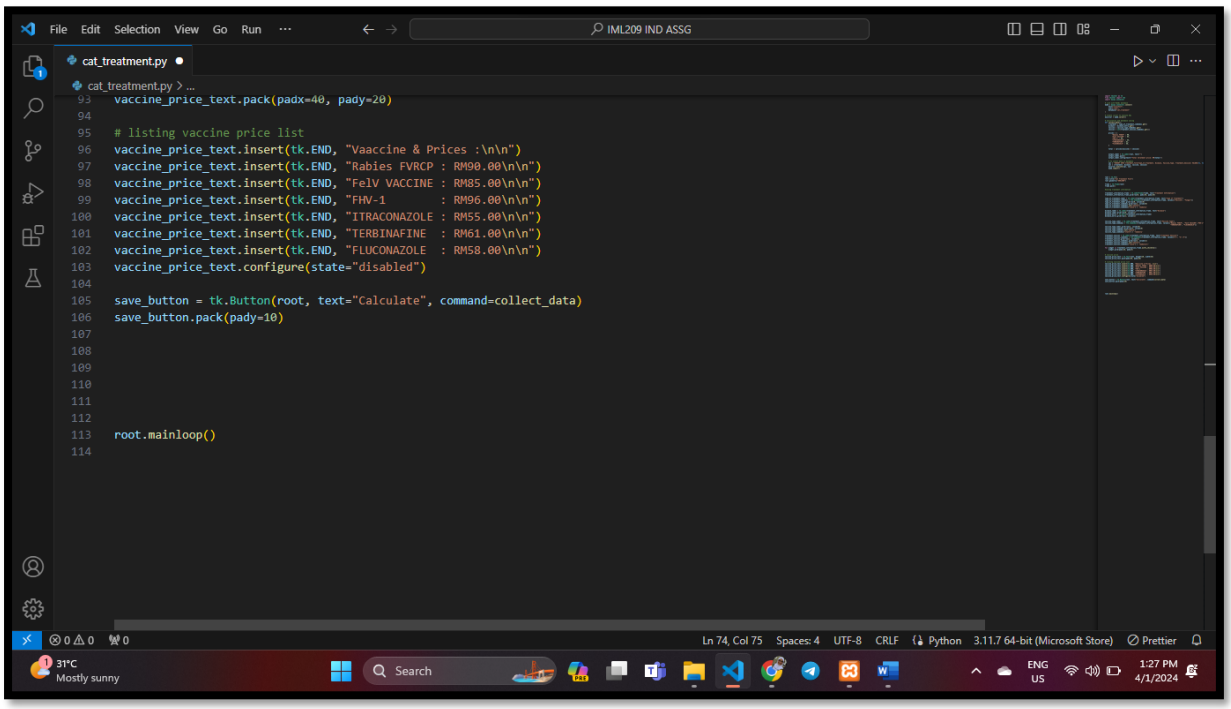
```python
import tkinter as tk
from tkinter import ttk
import mysql.connector

# Link with MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    database="cat_treatment"
)

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

# Calculation and database saving
def collect_data():
    treatment = type_of_treatment_combobox.get()
    disease = disease_entry.get()
    vaccine = vaccine_type_combobox.get()
    session = int(treatment_session_combobox.get())

    prices = {
        "Rabies FVRCP" : 90,
        "FelV VACCINE" : 85,
        "FHV-1" : 96,
        "ITRACONAZOLE" : 55,
        "TERBINAFINE" : 61,
        "FLUCONAZOLE" : 58,
    }

    total = (prices[vaccine] * session)
```



```python
    output_label = tk.Label(root, text="")
    output_label.pack()
    output_label.config(text=f"Total teratment price: RM{total}")

    # To insert data in database
    sql = "INSERT INTO treatment_form(Type_of_Treatment, Disease, Vaccine_Type, Treatment_Session) VALUES(%s, %s, %s, %s)"
    val = (treatment, disease, vaccine, session)
    mycursor.execute(sql, val)
    mydb.commit()



root = tk.Tk()
root.title("Cat Treatment Form")
root.geometry("600x600")

frame = tk.Frame(root)
frame.pack()

#saving treatment information

treatment_information_frame = tk.LabelFrame(frame, text="Treatment Information")
treatment_information_frame.grid(row=0, padx=20, pady=10)

type_of_treatment_label = tk.Label(treatment_information_frame, text="Type of Treatment")
type_of_treatment_combobox = ttk.Combobox(treatment_information_frame, values=["Vaccine", "Fungus"])
type_of_treatment_label.grid(row=0, column=0)
type_of_treatment_combobox.grid(row=1, column=0)
type_of_treatment_combobox.set("Choose")
type_of_treatment_combobox["state"] = 'readonly'
```

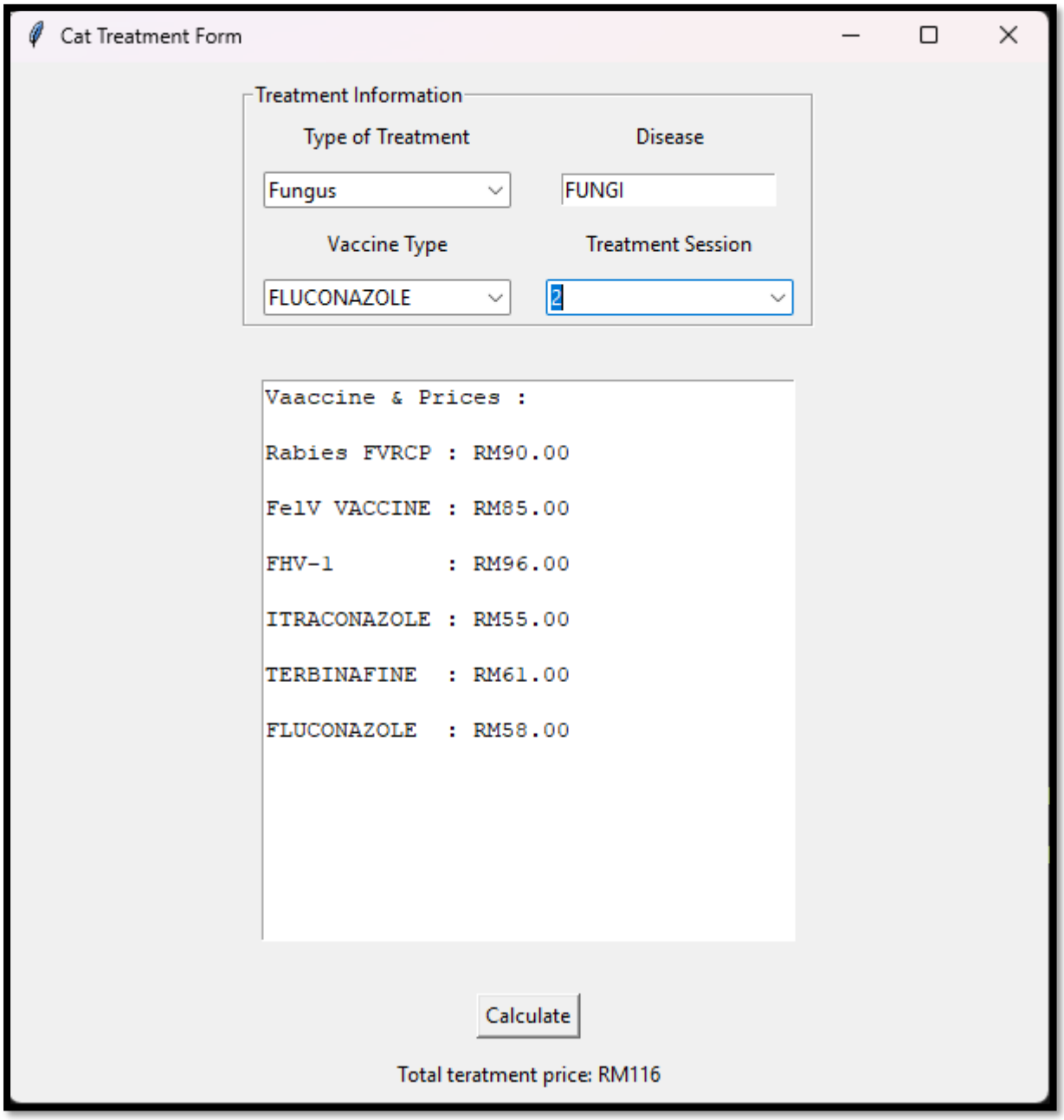


```
disease_label.grid(row=0, column=1)
disease_entry = tk.Entry(treatment_information_frame)
disease_entry.grid(row=1, column=1)


vaccine_type_label = tk.Label(treatment_information_frame, text="Vaccine Type")
vaccine_type_combobox = ttk.Combobox(treatment_information_frame, values=["Rabies FVRCP", "FelV VACCINE","FHV-1", "ITRACONAZOLE",
                                                                          "TERBINAFINE", "FLUCONAZOLE"])
vaccine_type_label.grid(row=2, column=0)
vaccine_type_combobox.grid(row=3, column=0)
vaccine_type_combobox.set("Choose")
vaccine_type_combobox["state"] = 'readonly'

treatment_session = tk.Label(treatment_information_frame, text="Treatment Session")
treatment_session_combobox = ttk.Combobox(treatment_information_frame, values=["1", "2","3"])
treatment_session.grid(row=2, column=1)
treatment_session_combobox.grid(row=3, column=1)
treatment_session_combobox.set("Choose")
treatment_session_combobox["state"] = 'readonly+/'

for widget in treatment_information_frame.winfo_children():
    widget.grid(padx=10, pady=5)


# vaccine price
vaccine_price_text = tk.Text(root, height=20, width=38)
vaccine_price_text.pack(padx=40, pady=20)

# listing vaccine price list
vaccine_price_text.insert(tk.END, "Vaaccine & Prices :\n\n")
vaccine_price_text.insert(tk.END, "Rabies FVRCP : RM90.00\n\n")
vaccine_price_text.insert(tk.END, "FelV VACCINE : RM85.00\n\n")
```



```
vaccine_price_text.pack(padx=40, pady=20)

# listing vaccine price list
vaccine_price_text.insert(tk.END, "Vaaccine & Prices :\n\n")
vaccine_price_text.insert(tk.END, "Rabies FVRCP : RM90.00\n\n")
vaccine_price_text.insert(tk.END, "FelV VACCINE : RM85.00\n\n")
vaccine_price_text.insert(tk.END, "FHV-1        : RM96.00\n\n")
vaccine_price_text.insert(tk.END, "ITRACONAZOLE : RM55.00\n\n")
vaccine_price_text.insert(tk.END, "TERBINAFINE  : RM61.00\n\n")
vaccine_price_text.insert(tk.END, "FLUCONAZOLE  : RM58.00\n\n")
vaccine_price_text.configure(state="disabled")

save_button = tk.Button(root, text="Calculate", command=collect_data)
save_button.pack(pady=10)




root.mainloop()
```

4.0 SNAPSHOT OF GUI



5.0 SNAPSHOT OF DATABASE