



UNIVERSITI TEKNOLOGI MARA  
(UiTM) KEDAH, KAMPUS SUNGAI PETANI

SCHOOL OF INFORMATION SCIENCE  
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN INFORMATICS LIBRARY

[CDIM144]

PROGRAMMING FOR LIBRARIES [IML208]

INDIVIDUAL PROJECT:

PREPARED BY:

NAME	STUDENT ID
NURUL AMNA ZAFIRAH BINTI MOHD ASHID	2023620732

GROUP: KCDIM144 3E

PREPARED FOR:

MOHD FIRDAUS BIN MOHD HELMI

SUBMISSION DATE:

18 DECEMBER 2024

1. Project Name: Hospital Appointment System

2. File name: hosp.appointment.py

3. Prompt Data:

- i) appointment id: Uniquely identifies each appointment.
- ii) patient name: Identifies the person who needs the appointment.
- iii) doctor name: Determines which doctor will attend the patient.
- iv) appointment date: Schedules the exact date of the appointment.
- v) reason: Provides context or purpose for the appointment.


4. Function:

- i) Create Appointment: Collect user input and adds a new appointment to the list.
- ii) View Appointment: Displays all current appointments in a numbered list.
- iii) Update Appointment: Modify an appointment by choosing its number.
- iv) Delete Appointment: Allows users to remove an appointment by selecting its number.
- v) List All Appointment: Shows all existing appointments.
- vi) Exit: Stops the program and exits the main loop.

5. Conditional Statement:

If, Elif, Else: Yes

6. GUI: Yes


Hospital Appointment System

Create Appointment

Patient Name

Doctor

Appointment Date

Reason

Create

View Appointment by ID

View

Update Appointment by ID

Appointment ID

New Patient Name (Optional)

New Doctor (Optional)

New Appointment Date (Optional)

New Reason (Optional)

Update

Delete Appointment by ID

Delete

List All Appointments

```
<  →  🔍 Search  [Icons] -
appointment.py  appointment.py.py  hosp.appoint.py  hosp.appointment.py ×
C:\> Users > GIT > OneDrive > Documents > ASSIGNMENT SEM 3 > hosp.appointment.py > ...
93      messagebox.showinfo("Info", "No appointments available.")
94
95  def clear_fields():
96      patient_name_var.set("")
97      doctor_var.set("")
98      date_var.set("")
99      reason_var.set("")
100     view_id_var.set("")
101     delete_id_var.set("")
102
103  def clear_update_fields():
104      update_id_var.set("")
105      update_patient_var.set("")
106      update_doctor_var.set("")
107      update_date_var.set("")
108      update_reason_var.set("")
109
110  # Tkinter Window
111  root = tk.Tk()
112  root.title("Hospital Appointment System")
113  root.geometry("500x700")

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  +
PS C:\Users\G1T> & C:\Users\G1T\AppData\Local\Programs\Python\Python31
3/python.exe "c:/Users/G1T/OneDrive/Documents/ASSIGNMENT SEM 3/hosp.ap
ointment.py"

---Project Information---
NURUL AMNA ZAFIRAH BINTI MOHD ASHID
2023620732
Topic: Hospital Appointment System

Spaces: 4  UTF-8  ()  Pyt
```

## 7. Result:

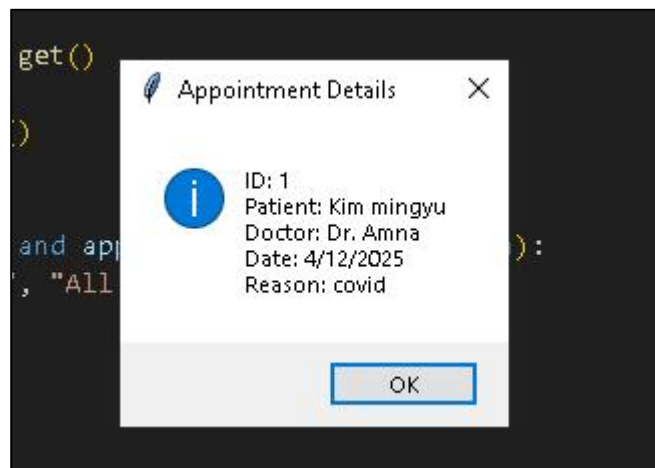
### 7.1 Create Appointment:



### 7.2 View Appointment

### View Appointment by ID

An appointment ID is automatically assigned upon the creation of an appointment, starting sequentially from the number 1.



### 7.3 Update Appointment

### Update Appointment by ID

Appointment ID  
1

New Patient Name (Optional)  
Kim mingyu

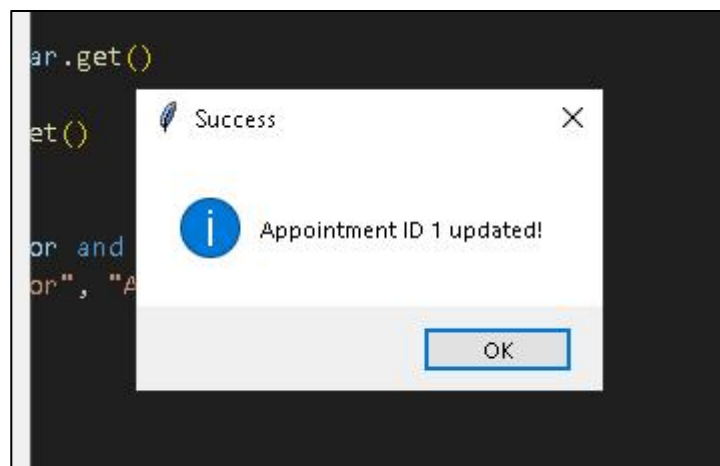
New Doctor (Optional)  
Dr. Aisyah

New Appointment Date (Optional)  
22/6/2025

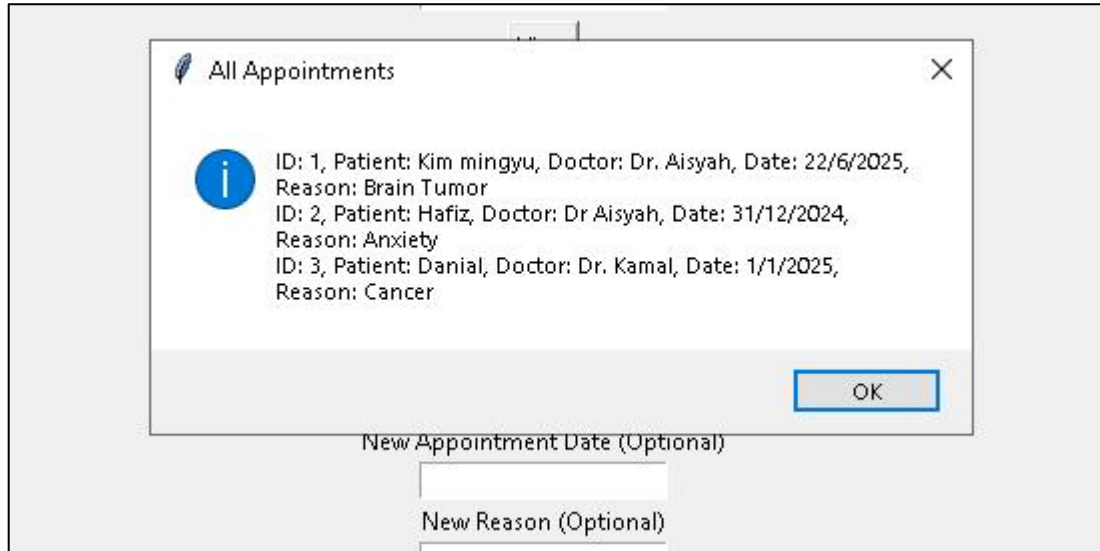
New Reason (Optional)  
Brain Tumor

Update

You can update all details related to your appointment, including assigning a new doctor, by providing your appointment ID.



## 7.4 List All Appointment



The screenshot shows a web application interface. A modal window titled "All Appointments" is open, displaying a list of three appointments. Each entry includes an ID, patient name, doctor name, date, and reason. An information icon (i) is next to the first entry. Below the modal, there are two optional input fields: "New Appointment Date (Optional)" and "New Reason (Optional)".

ID	Patient	Doctor	Date	Reason
ID: 1	Kim mingyu	Dr. Aisyah	22/6/2025	Brain Tumor
ID: 2	Hafiz	Dr Aisyah	31/12/2024	Anxiety
ID: 3	Danial	Dr. Kamal	1/1/2025	Cancer

New Appointment Date (Optional)

New Reason (Optional)

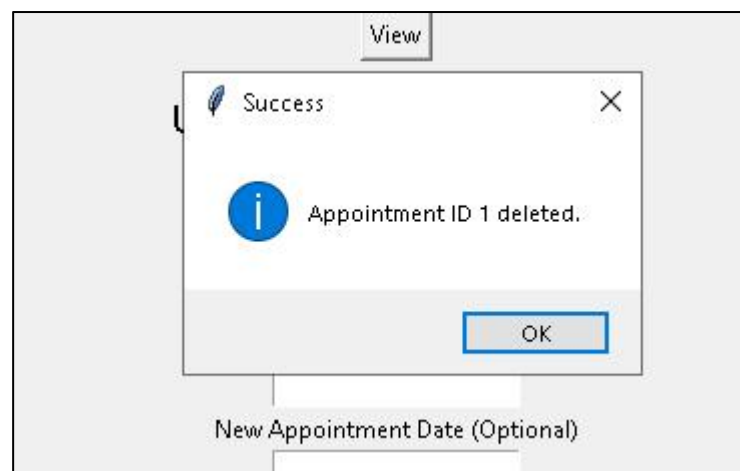
You can view a list of all appointments, including their scheduled dates. Appointments will remain in the system unless you choose to delete them.

## 7.5 Delete Appointment



A screenshot of a web form titled "Delete Appointment by ID". At the top, there is a tab labeled "Update". Below the title, there is a text input field containing the number "1". At the bottom of the form, there is a button labeled "Delete".

You can delete an appointment by providing the corresponding appointment ID.



A screenshot of a web form with a tab labeled "View". A modal dialog box is displayed in the center. The dialog has a title bar with a feather icon, the word "Success", and a close button (X). Inside the dialog, there is a blue information icon (i) followed by the text "Appointment ID 1 deleted." At the bottom right of the dialog is an "OK" button. Below the dialog, in the background form, there is a text label "New Appointment Date (Optional)" above an empty text input field.

Strengths:

1. Clear Functionality:

Each function has a clear purpose: create, view, update, delete, and list appointments. This makes the code easy to understand and maintain.

2. User-Friendly GUI:

The use of Tkinter provides a simple graphical interface that is intuitive for users to navigate. Labels, buttons, and input fields are arranged logically.

3. Well-Organized Structure:

Functions are modular and separated for specific tasks, adhering to good coding practices.

4. Update Functionality:

Adding the update function shows completeness and ensures users can modify appointments as needed.

5. Dynamic IDs:

Appointment IDs are automatically assigned using the length of the appointments list, simplifying record identification.



Kaizen:

1. Improved UI Layout:

The UI layout can become cluttered with more appointments.

2. Update Logic:

When updating an appointment, it should display the existing details in the entry fields for editing.

3. Scalability:

Currently, appointments are stored in a simple list, which works fine for small data. For larger systems, consider integrating a database.

4. Implement Data Persistence

The current system does not save appointments when the program is closed.