1. **Introduction:**
   - To generate an attendance sheet for a particular month by inputting the year and the month.
   - To generate an attendance sheet for a particular individual for a specific range of dates.

2. **Scope:** Applicable for data stored in Twinkle Database.

3. **The folder where the program resides and how to execute them from the start:**
   In Local Server(10.32.26.20)

   Location: /home/pi/Desktop/Integrate_DB_UDP/Multiuser
   Name of the file: Data_Display_DB.py
   Dependent file: Spreadsheet.py, Spreadsheet_headers.py

   How to execute the program:

   - Open the terminal.
   - Change the directory by typing:
     "cd /home/pi/Desktop/Integrate_DB_UDP/Multiuser"
   - To run the program type:
     "python3 Data_Display_DB.py."

   **NOTE: The generated Attendance sheets are stored in path:**

   "/home/pi/Desktop/Integrate_DB_UDP/Multiuser"

4. **Guide to install the program and configure various parameters:** The program is a self-written script.

   Parameters to be configured: In the folder Spreadsheet_headers.py, update the parameter "list of holidays" as per the year required.

5. Detailed Description with diagrams:

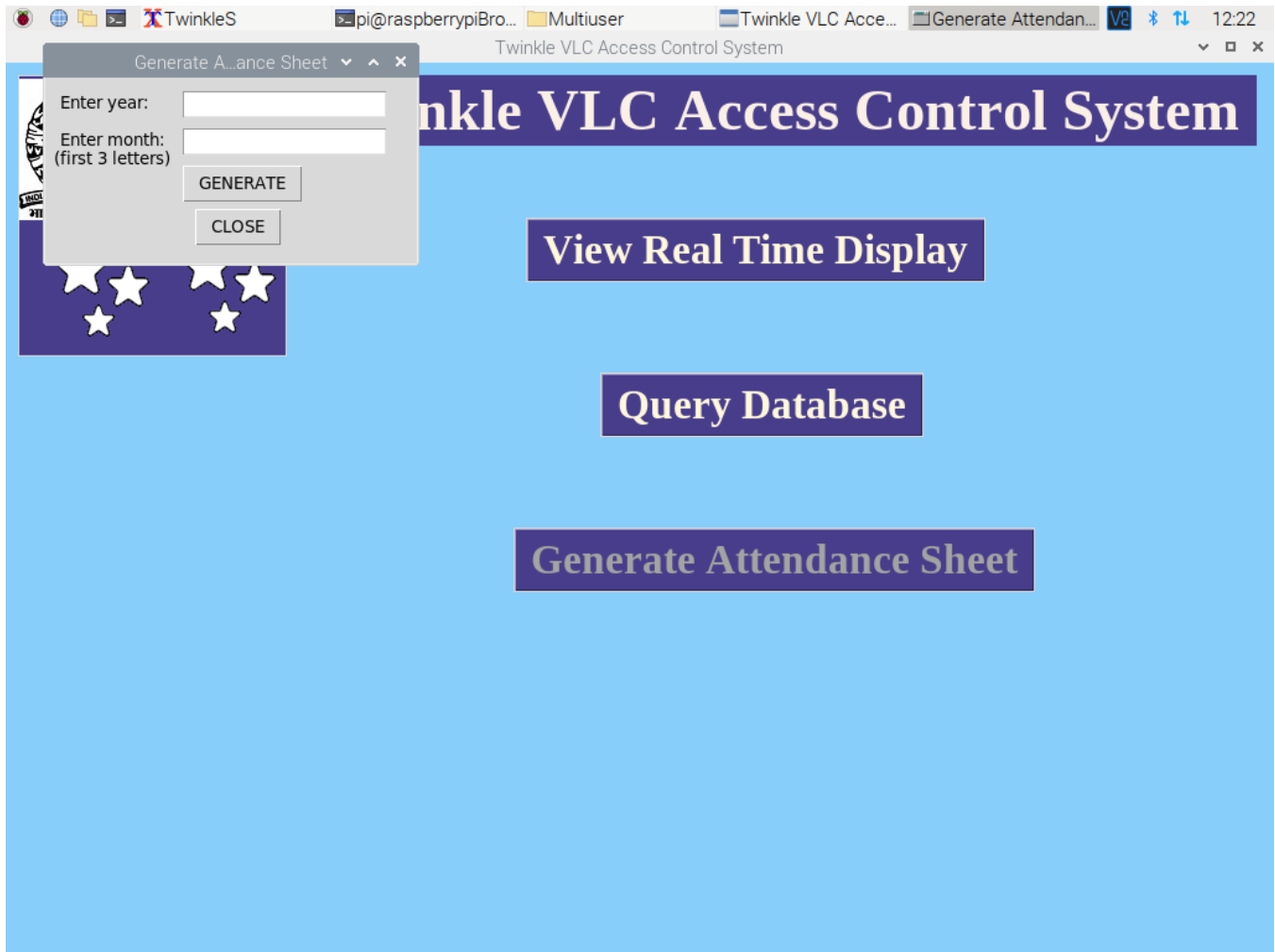- On running the program, following Main Window pops up:
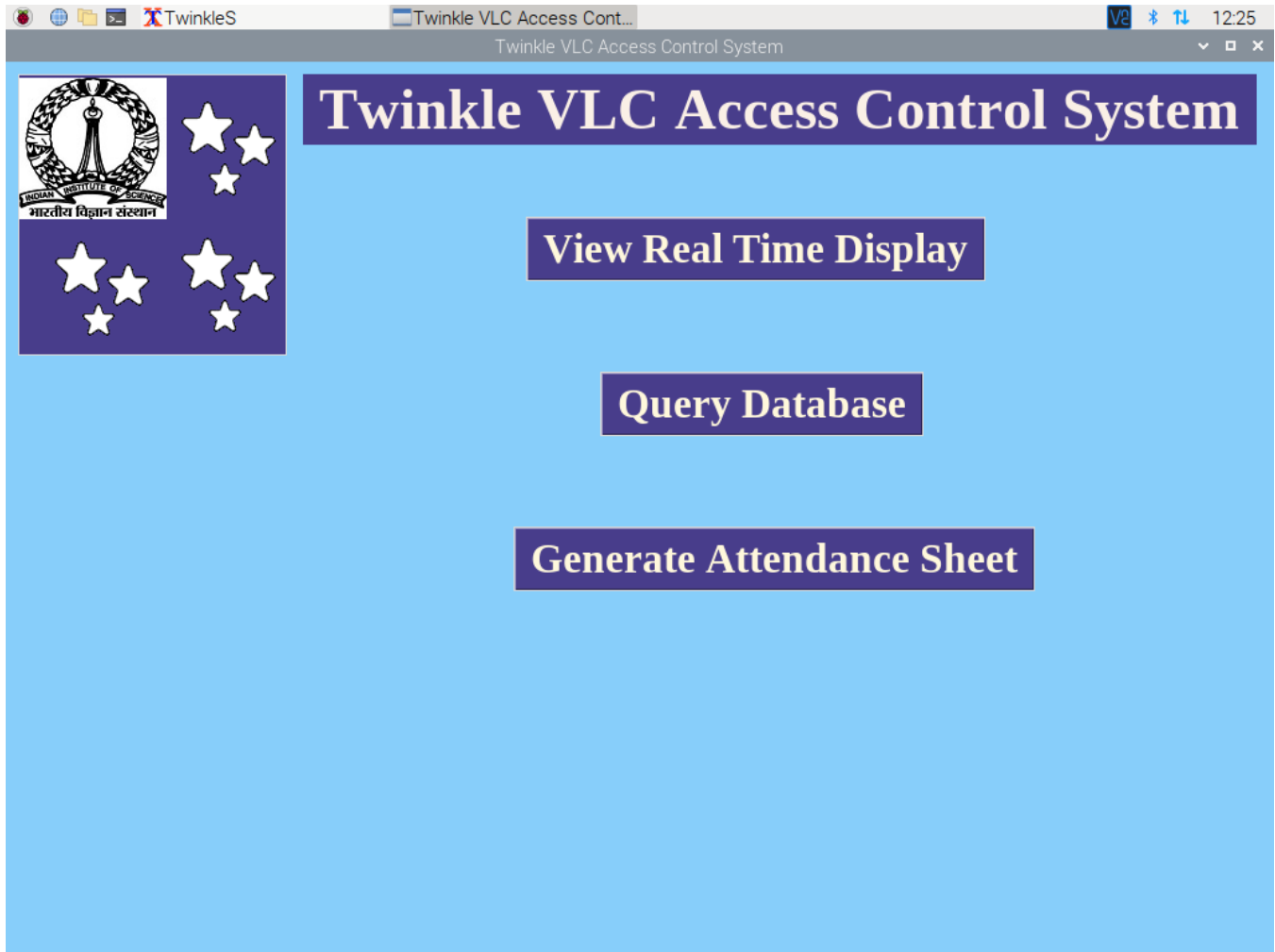
- It has 3 options:
  - View Real Time Display
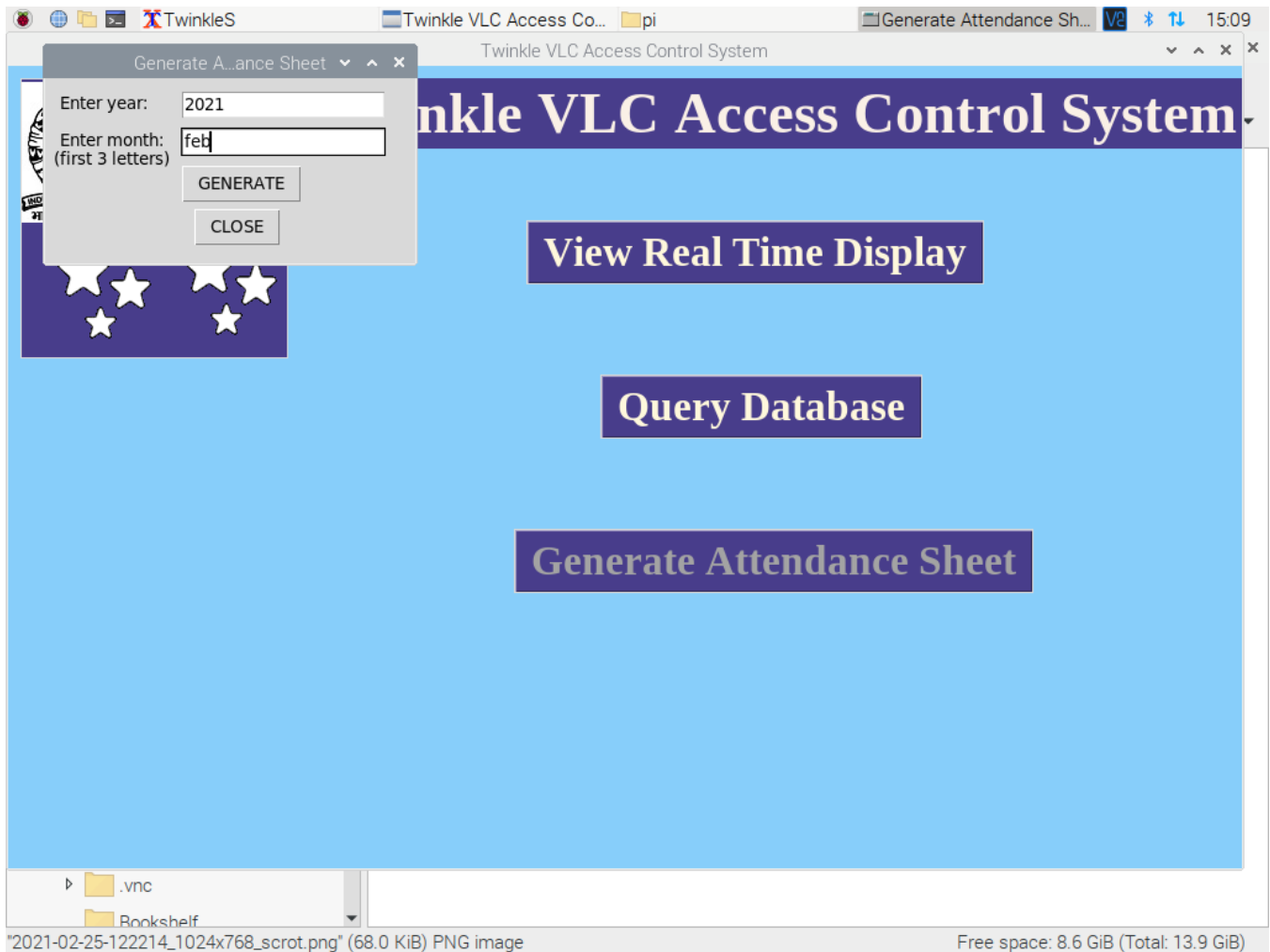 - Query Database
  - Generate Attendance Sheet

- **Generate Attendance Sheet:**

  For generating Attendance sheet on a monthly basis, click on "Generate Attendance Sheet" in the main window.

  On clicking "Generate Attendance Sheet", following window pops up:

- Enter in the required year and month and click on "GENERATE":

- Sample of the generated Attendance Sheet:

Form XVI

Register of Attendance for the month of FEB 2021

Name of the firm: IISc, ECE   Nature of Work: Un-skilled   Place: IISc, Bengaluru

Names	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	WO	TD
Devamma	P	P	P	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	P	P	P							0	22
Lakshmamma	A	A	A	A	A	P		P	P	P	P	P	A		A	A	A	A	A	A		A	A	A	A							16	6
Manjula N	A	A	A	P	P	A		P	P	P	P	P	P		P	P	P	A	A	A		A	A	A	A							11	11
Venkat Ramanamma	A	A	A	A	A	A		A	A	A	A	A	A		A	A	A	A	A	A		A	A	A	A							22	0

P: Present   WO: Work off

A: Absent   TD: Total days

⬛ : Sunday   ⬛ : Institute Holiday

DEBIT HEAD: Part(1A) WE.01-0402-0000-44-433

Supervisor's Signature: **Chairman's Signature:**

- **Query Datatabase**:
  For generating attendance sheet for a particular individual based on a specific range of dates, click on "Query Database" in the main window.

  On clicking "Query Database", following window pops up:
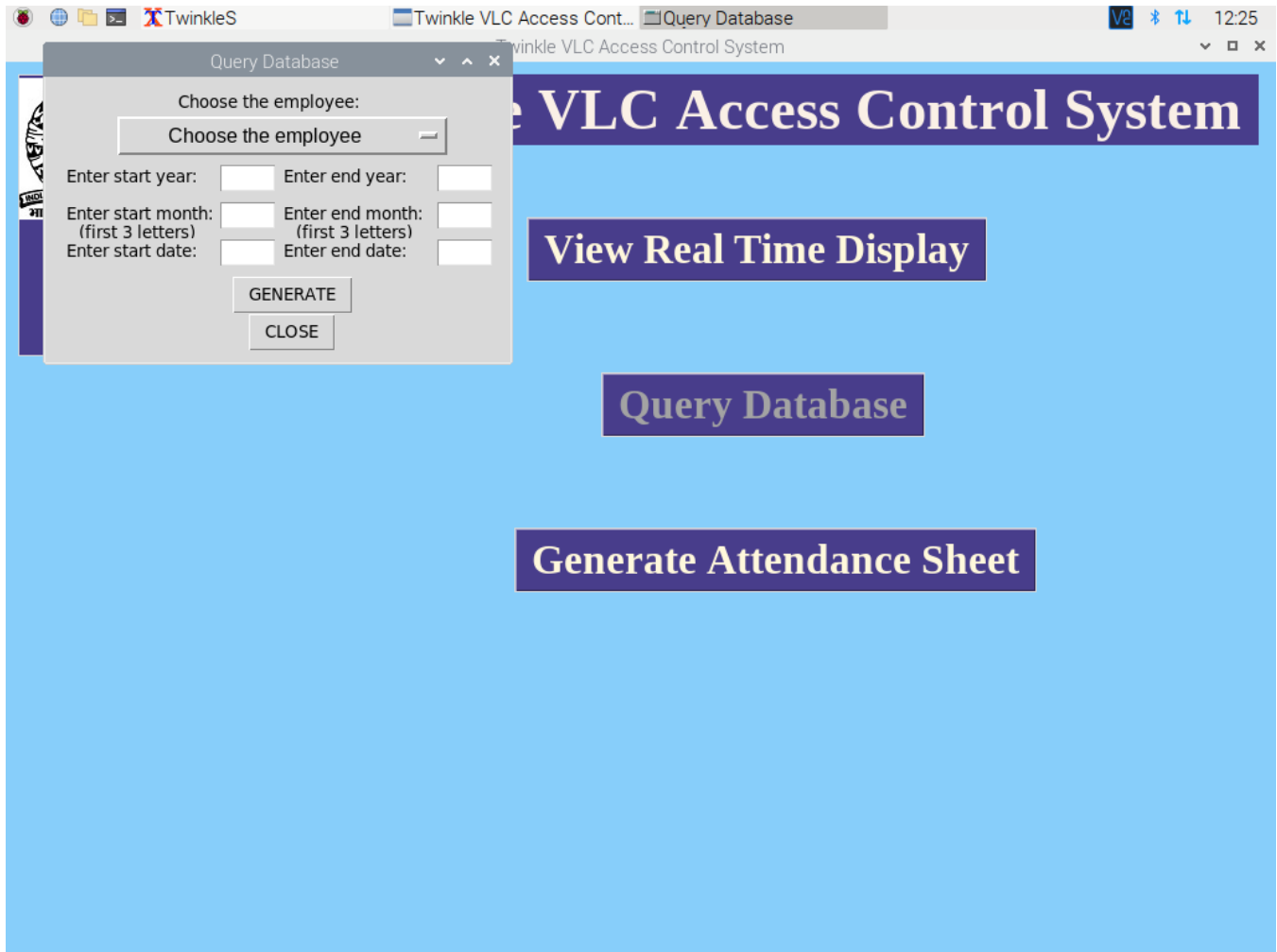
- Select the Employee Name and enter in the range of dates and click on "Generate" Button:

The sample of Generated Attendance sheet:

Register of Attendance for the month of JAN 2021-FEB 2021

Name of the firm: IISc, ECE   Nature of Work: Un-skilled   Place: IISc, Bengaluru

Name of employee: Lakshmamma

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	WO	TD
JAN 2021					P	P	A	A	P			P	A		A	P		P	P	P	P	P	P		A		P	A	A	A		8	12
FEB 2021	A	A	A	A	A	P		P	P	P																						5	4

P: Present   WO: Work off
A: Absent   TD: Total days

: Sunday   : Institute Holiday

6. Details about any scripts or 3rd party programs:
No third-paty scripts is used.

7. Platforms required for running the programs (PC/RPi ...):
Raspberry Pi, Linux systems, Windows in softwares like Visual Studio, PyCharm.