

### 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:

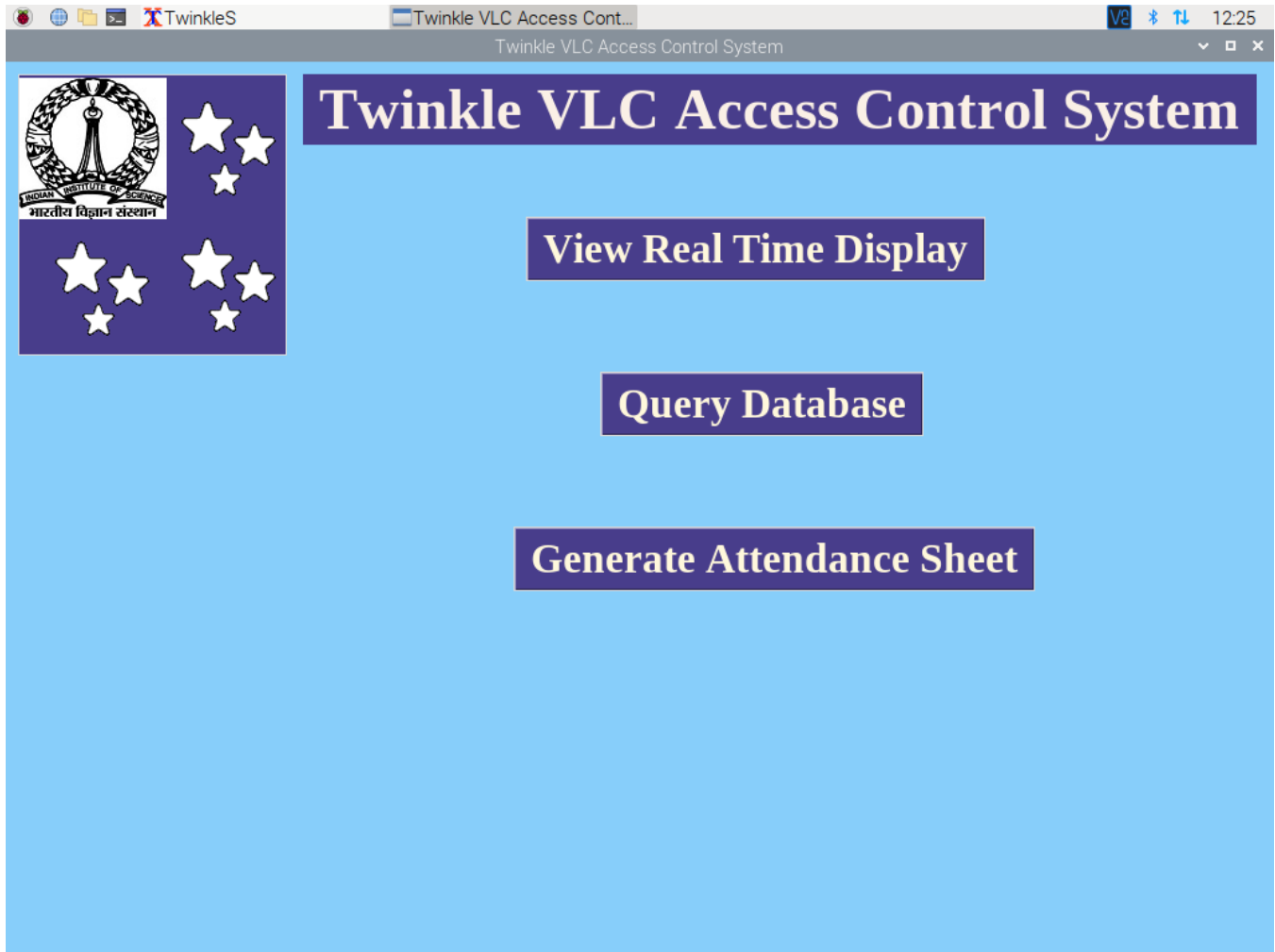
“/home/pi/Desktop/Integrate\_DB\_UDP/Multiuser”

### 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:

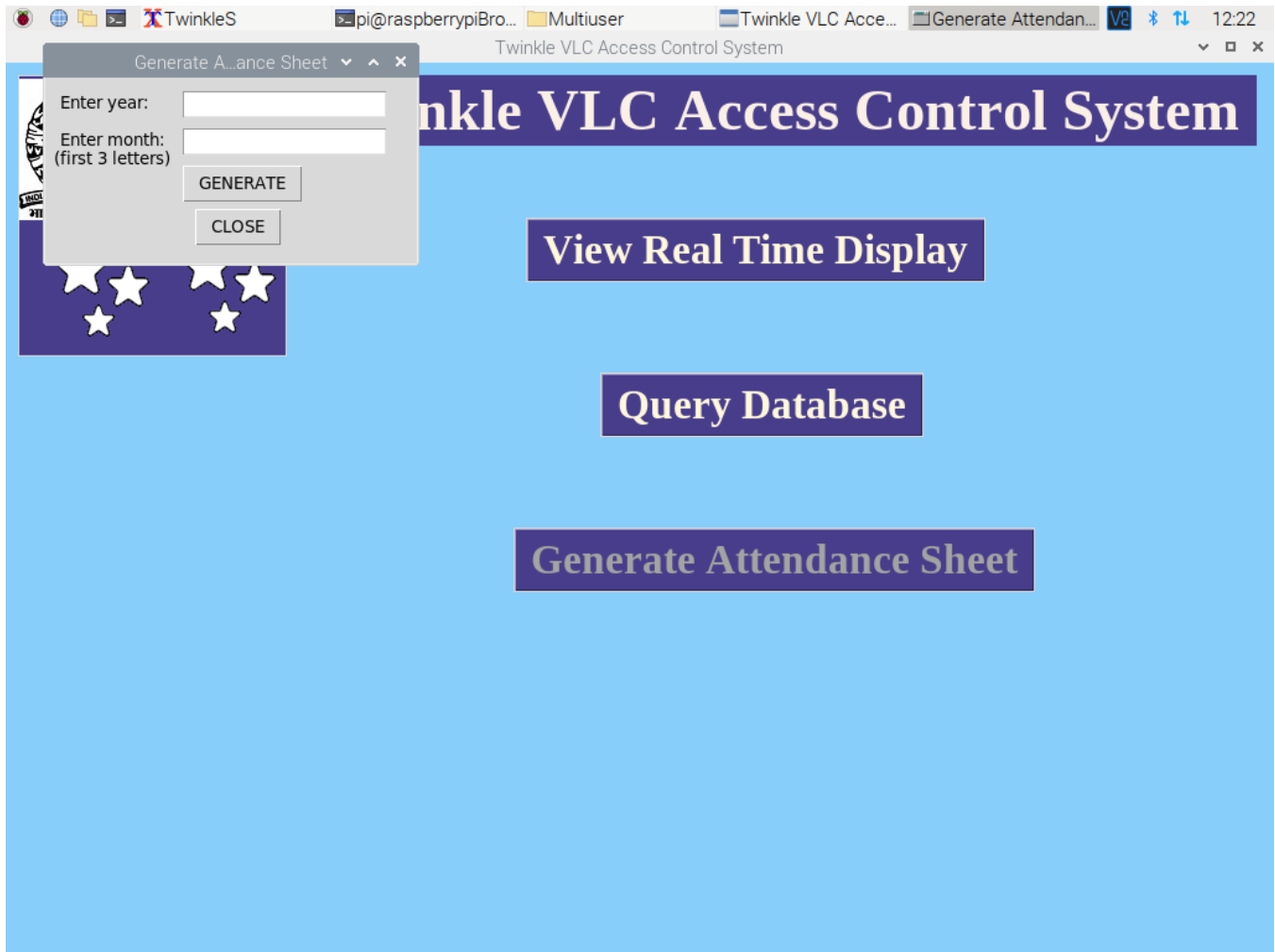


- It has 3 options:
  - View Real Time Display
  - Query Database
  - Generate Attendance Sheet

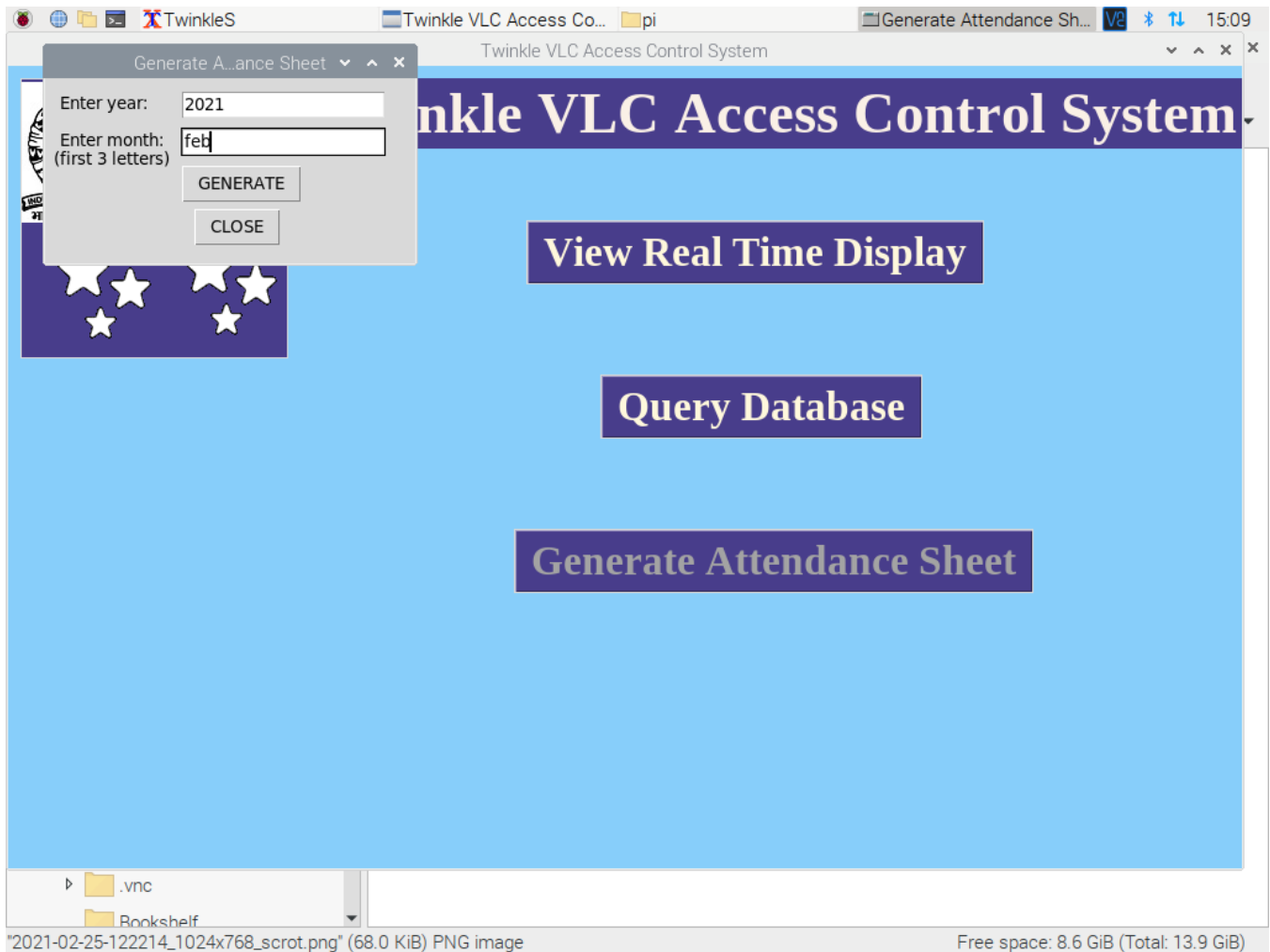
- **Generate Attendance Sheet:**

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:

Multiuser pi@raspberrypiBroadlab: ... FEB-2021.xlsx - LibreOffice...

FEB-2021.xlsx - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Calibri 11

A1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	Form XVI																																		
2	Register of Attendance for the month of FEB 2021																																		
3																																			
4	Name of the firm: IISc, ECE							Nature of Work: Un-skilled										Place: IISc, Bengaluru																	
5	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	
6	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		
7	Lakshamma	A	A	A	A	A	P		P	P	P	P	P	A		A	A	A	A	A	A		A	A	A	A						16	6		
8	Manjula N	A	A	A	P	P	A		P	P	P	P	P			P	P	P	A	A	A		A	A	A	A						11	11		
9	Venkat Ramanamma	A	A	A	A	A			A	A	A	A	A			A	A	A	A	A	A		A	A	A	A						22	0		
10																																			
11																																			
12	P: Present						WO: Work off																												
13	A: Absent						TD: Total days																												
14																																			
15	: Sunday						: Institute Holiday																												
16																																			
17	DEBIT HEAD: Part(1A) WE.01-0402-0000-44-433																																		
18																																			
19																																			
20																																			
21																																			
22																																			
23																																			
24																																			
25																																			
26	Supervisor's Signature:															Chairman's Signature:																			
27																																			

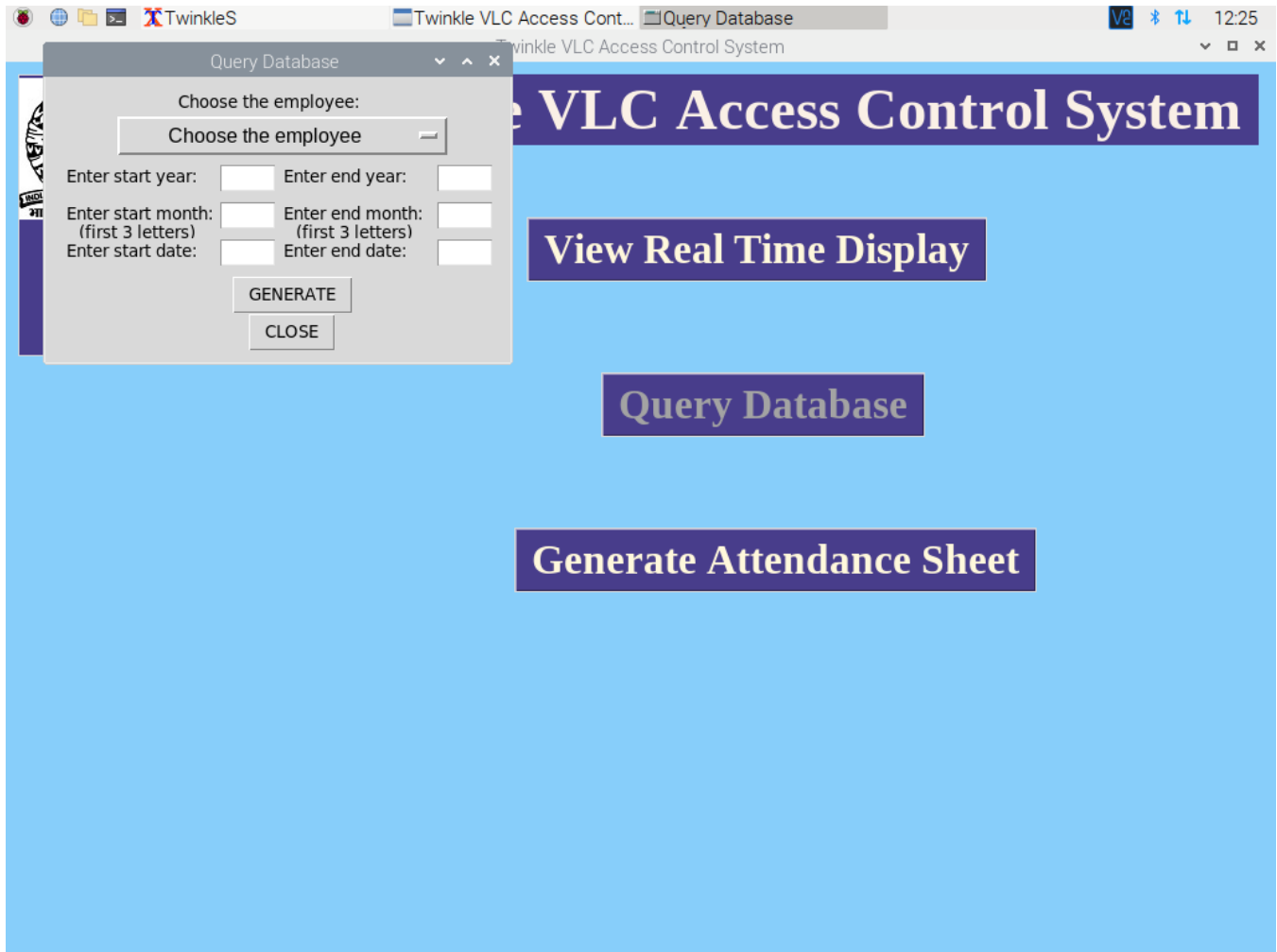
Sheet

Sheet 1 of 1 PageStyle\_Sheet English (USA) Average: : Sum: 0 100%

- **Query Database:**

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 screenshot shows a web browser window with the title "Twinkle VLC Access Control System". The main content area has a light blue background with three dark blue buttons: "View Real Time Display", "Query Database", and "Generate Attendance Sheet". A modal window titled "Query Database" is open in the foreground. It contains the following fields and controls:

- Choose the employee:** A dropdown menu with "Lakshamma" selected.
- Enter start year:** Text input with "2021".
- Enter end year:** Text input with "2021".
- Enter start month: (first 3 letters):** Text input with "jan".
- Enter end month: (first 3 letters):** Text input with "feb".
- Enter start date:** Text input with "5".
- Enter end date:** Text input with "10".
- Buttons:** "GENERATE" and "CLOSE".

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: Lakshamma

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																									
FEB 2021	A	A	A	A	A	P																											

P: Present      WO: Work off  
 A: Absent      TD: Total days  
 : Sunday      : Institute Holiday

**6. Details about any scripts or 3rd party programs:**

No third-party scripts is used.

**7. Platforms required for running the programs (PC/RPi ...):**

Raspberry Pi, Linux systems, Windows in softwares like Visual Studio, PyCharm.