SIT210

EMBEDDED SYSTEM DEVELOPMENT

TASK:5.2c

NAME: TINA

ROLL NO: 2210994851

**Q1:** Submit a video that demonstrates the system working.

**Answer:**

**Link to video:**

<https://drive.google.com/drive/folders/1nfrcog8vteLKD48luv-lZQcD_2ijP0TM?usp=sharing>

**Q2:** Create a repository named SIT210-Task5.2C-RPiGUI on Github. Upload your code to the repository. Include the link to your repository here.

**Answer:**

**Link to github:**

<https://github.com/Tina1409/SIT210-Task5.2C-RPiGUI->

**Q3:** Describe a real-life usage scenario for your system.

**Answer:** In the indoor plant monitoring system, you can use a Raspberry Pi with sensors for soil moisture, temperature (DHT sensor), and light (LDR sensor), each connected to a corresponding LED (**red** for moisture, **blue** for temperature, and **green** for light). If the soil gets too dry, the red LED blinks quickly to indicate the need for watering; if the temperature is uncomfortable for the plant, the blue LED blinks; and if the plant needs more light, the green LED blinks rapidly. This system simplifies plant care, making it accessible to anyone, even without specific plant knowledge, by providing clear visual indicators for the plant's health and needs.