Project Title: Smart Home Temperature & Humidity Monitoring System

Internship Domain: Embedded Systems & IoT

1. **Introduction:** This project demonstrates a basic IoT architecture where an embedded sensor collects environmental data (Temperature and Humidity) and transmits it to a monitoring interface.

2. Components & Implementation:

- **Hardware Logic:** Simulated DHT11 Sensor logic for data acquisition.

- **Software:** Python-based simulation of data transmission protocols.

- **Data Flow:** Sensor -> Data Processing -> Cloud Simulation.

3. Conclusion: The project successfully implements the core IoT concepts of sensing and data communication, providing a foundation for real-time environmental monitoring.