

Smart Home

“When you bring your home and technology together, it can be referred to as “Smart Home.” For instance, lights, switches, audio speakers, thermostats, security cameras are connected to a common system and can control the entire home by itself.

With a smart home, you can explore the world of high-tech functionality and luxury that was not necessarily possible in the past.”

- **Project Scenario:**

- The home contains a LCD to display the home's temperature.
- The fan (DC motor) will **continuously** work according to the home's temperature (if it too high).
- To save energy, the lights (at least one LED) in the house **gradually** turn on according to the intensity of the lighting inside the home.
- For home security, there will be **three** buttons, when pressed in a **certain pattern**, the home's door (servo motor) will open.
and show if the pattern correct or not on the second row on LCD.
- When your car arrives in front of the home's garage, the garage will detect the **distance** to the car and when you be near the door (servo motor) will open.