TEAM ID: PNT2022TMID09820(Empathy map)

PROBLEM STATEMENT:

- Liquid Petroleum Gas (LPG) is a highly flammable chemical that consists of mixture of propane and butane. LPG is used for cooking at home, restaurant, and certain use for industry.
- They have certain weaknesses that make the gas leakage occur.
- The leakage of gases only can be detected by human nearby and if there are no human nearby, it cannot be detected. But sometimes it cannot be detected by human that has a low sense of smell.
- Thus, this system will help to detect the presence of gas leakage.
- Furthermore, gas leakage can cause fire that will lead to serious injury or death and it also can destroy human properties. This system was developed by using IoT to give real-time response to the user and the nearest fire station.

OBJECTIVE:

- To build a system that can detect the liquid petroleum gas leakage.
- To detect the changes of temperature caused by fire.
- To send the information to the nearest fire station through Internet of Thing (IoT).

PAINS:

- It is little sensitive to smoke then it is not perfectly response for LPG detectiom.
- Its sensitivity depends on Humidity and Temperature.

GAINS:

- Used in house as a LPG gas detector.
- It also detect alcohol so it is used as a liquor detector.
- The sensor has excellent sensitivity Combined with a quick respondse time