**IOT BASED SMART FARMING**

**PROBLEM STATEMENT:**

Internet of Things (IoT) describes the network of physical objects things that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. Over the past few years, IoT has become one of the most important technologies of the 21st century. The Development of Smart Farming IoT based devices is turning the face of agriculture production by making it cost effective and reducing wastage. IoT applications may assist in controlling the irrigation pump, data logging the soil health conditions for present and future purpose. Further with the help of IoT application, provision for live guidance based on stored date of soil health from professional to farmers in remote locations may be made available. This emerging system increases the quality and quantity of agricultural products. IoT technology provides the information about farming fields and then takes action depending on the farmer input. We can design an IoT based advanced solution for monitoring the soil conditions and atmosphere for efficient crop growth. The developed system is capable of monitoring temperature, humidity, soil moisture type using different sources.