

INTRODUCTION:

- Industries, shopping malls, residential complexes, and parking lots all rely heavily on fire detectors. They help in recognizing fire or smoke at a beginning phase and can help in saving lives.
- Most commercial fire detection systems have an alarm that is sounded by a buzzer or siren. Using temperature, smoke, and fire sensors, we designed an IOT-based fire alerting system. This project will not only let people know if a building has fire, but it will also send information about it through IOT.

OBJECTIVE:

- The network of "things" that allows physical objects to exchange data with the assistance of sensors, electronics, software, and connectivity is referred to as the Internet of Things (IoT). There is no need for human interaction with these systems. We can send live information to the fire department, such as the temperature, smoke, and fire value that a particular device has detected, using this Arduino fire alarm system and the IOT project.
- In industrial plants, fire prevention and protection essentially entails procedures for preventing, detecting, and putting out fires. Promoting fire safety systems requires significant effort. In order to guarantee safe working conditions and safeguard employees and property, the systems should be designed. A fire detection system, an alarm system, a fire prevention plan, and adhering to legal requirements pertaining to fire and safety management are all components of fire prevention and protection in any industrial facility.