

Sprint 1

TEAM ID	PNT2022TMID24481
PROJECT NAME	Industry-Specific Intelligent Fire Management System

Simulation:

The screenshot displays the WOKWI web-based development environment. On the left, the code editor shows a C++ program for an ESP32. The code includes a `time.h` header, defines boolean variables for `exhaust_fan_on` and `sprinkler_on`, and a float variable for `temperature`. It also defines integer variables for `gas` and `flame`. The `setup()` function initializes the serial port at 999000 baud. The `loop()` function sets a random seed, initializes variables, and generates random values for `temperature`, `gas`, and `flame`. The `flame` variable is mapped from a random reading. A switch statement is partially visible at the bottom.

On the right, the 'Simulation' window shows the real-time status of the system. It displays the following output:

```
Flame Status : Fire is Detected
Gas Status : Gas leakage Detected
Sprinkler Status : working
Exhaust fan Status : Working
```

Below this, a separator line is shown, followed by another status report:

```
Flame Status : No Fire
Gas Status : Gas leakage Detected
Sprinkler Status : not working
Exhaust fan Status : Working
```

The simulation window also includes a timer showing 00:11.166 and a 43% progress indicator. At the bottom of the interface, there are links for GitHub, Pricing, API, Training, Blog, and About.