

## Project Objectives

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| Team ID      | PNT2022TMID43363  |
| Project Name | Hazardous Area Monitoring for Industrial Plant Powered by IoT |

### Knowledge gained:

- Gain knowledge of Watson IoT Platform.
- Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- Gain knowledge on Cloudbant DB
- Creating a Web Application through which the user interacts with the device.

### Project Flow:

- Sending random Humidity and Temperature values will be sent to the IBM IoT platform
- Sensors values can be viewed in the Web Application
- Notifies the admin the random values cross the threshold value

To accomplish this, we have to complete all the activities and tasks listed below:

- Create and configure IBM Cloud Services
  - Create IBM Watson IoT Platform
  - Create a device & configure the IBM IoT Platform
  - Create Node-RED service
  - Create a database in Cloudbant DB to store location data
- Develop a web Application using Node-RED Service.
  - Develop the web application using Node-RED
- Develop a python script to publish the sensor data to the IBM IoT platform