SOFTWARE

Team ID	PNT2022TMID43411
Team Members	JOTHI KRISHNA T - 715519106018 KARTHIKEYAN A - 715519106020 NITHIYANANTH S - 715519106031 VIPIN L - 715519106059
Project Title	Gas Leakage Monitoring And Alerting System For Industries

```
Python 3.7.0 Shell

File  Edit  Shell  Debug  Options  Window  Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> print("IBM")
IBM
>>> print("Gas Leakage Monitoring And Alerting System For Industries")
Gas Leakage Monitoring And Alerting System For Industries
>>>
```

Libraries to integrate with IBM Cloud Services:

```
pip install wiotp-sdk
pip install requests
pip install paho.mqtt
pip install ibmiotf
pip install opencv-python
python -m pip install pip
```

pip install numpy
pip install--upgrade "ibm-watson>-6.1.0"

```
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\karth>pip install wiotp-sdk
Requirement already satisfied: wiotp-sdk in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (0.11.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (1.1.0)
Requirement already satisfied: pytz>=2018.9 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (2022.6)
Requirement already satisfied: pyyaml>=3.13 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (6.0)
Requirement already satisfied: paho-mqtt>=1.5.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (1.6.1)
Requirement already satisfied: requests>=2.21.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from wiotp-sdk) (0.10.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)
Requirement already satisfied: idna<4,>=2.5 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\karth\appdata\local\programs\python\python37-32\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)

C:\Users\karth>
```