

DEVELOP A PYTHON SCRIPT

TEAM ID	PNT2022TMID33322
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY AND MONITORING SYSTEM

The screenshot displays a Windows desktop environment. On the left, a Python script is open in an IDE (likely IDLE 3.10.7). The script is titled 'KJ.py' and is located at 'C:\Users\KAVIYA\AppData\Local\Programs\Python\Python310\KJ.py (3.10.7)'. The script imports 'time', 'sys', 'ibmiotf.device', and 'random'. It defines IBM Watson Device Credentials, including organization, deviceType, deviceId, authMethod, authToken, and url. It then initializes GPIO and defines a 'myCommandCallback' function. A 'while True' loop generates random data for 'gas', 'temp', 'hum', and 'pre', and prints it along with a timestamp.

On the right, a terminal window titled 'IDLE Shell 3.10.7*' shows the output of the script. The output consists of multiple lines of data, each representing a successful data publication. The data includes 'Hazardous Gas', 'Temperature', 'Humidity', and 'Pressure' values. The terminal output is as follows:

```
Published data Successfully: %s ('Hazardous Gas': 32, 'Temperature': 63, 'Humidity': 31, 'Pressure': 18)
Published data Successfully: %s ('Hazardous Gas': 8, 'Temperature': 88, 'Humidity': 31, 'Pressure': 18)
Published data Successfully: %s ('Hazardous Gas': 47, 'Temperature': 79, 'Humidity': 18, 'Pressure': 45)
Published data Successfully: %s ('Hazardous Gas': 55, 'Temperature': 86, 'Humidity': 72, 'Pressure': 18)
Published data Successfully: %s ('Hazardous Gas': 29, 'Temperature': 51, 'Humidity': 16, 'Pressure': 4)
Published data Successfully: %s ('Hazardous Gas': 42, 'Temperature': 50, 'Humidity': 75, 'Pressure': 73)
Published data Successfully: %s ('Hazardous Gas': 15, 'Temperature': 13, 'Humidity': 92, 'Pressure': 12)
Published data Successfully: %s ('Hazardous Gas': 18, 'Temperature': 85, 'Humidity': 34, 'Pressure': 30)
Published data Successfully: %s ('Hazardous Gas': 0, 'Temperature': 61, 'Humidity': 50, 'Pressure': 99)
Published data Successfully: %s ('Hazardous Gas': 77, 'Temperature': 30, 'Humidity': 25, 'Pressure': 39)
Published data Successfully: %s ('Hazardous Gas': 78, 'Temperature': 18, 'Humidity': 56, 'Pressure': 30)
Published data Successfully: %s ('Hazardous Gas': 16, 'Temperature': 93, 'Humidity': 45, 'Pressure': 92)
Published data Successfully: %s ('Hazardous Gas': 43, 'Temperature': 57, 'Humidity': 3, 'Pressure': 43)
Published data Successfully: %s ('Hazardous Gas': 46, 'Temperature': 64, 'Humidity': 31, 'Pressure': 38)
Published data Successfully: %s ('Hazardous Gas': 38, 'Temperature': 5, 'Humidity': 60, 'Pressure': 61)
Published data Successfully: %s ('Hazardous Gas': 72, 'Temperature': 88, 'Humidity': 68, 'Pressure': 90)
Published data Successfully: %s ('Hazardous Gas': 80, 'Temperature': 2, 'Humidity': 17, 'Pressure': 53)
Published data Successfully: %s ('Hazardous Gas': 35, 'Temperature': 76, 'Humidity': 54, 'Pressure': 32)
Published data Successfully: %s ('Hazardous Gas': 32, 'Temperature': 54, 'Humidity': 62, 'Pressure': 10)
Published data Successfully: %s ('Hazardous Gas': 17, 'Temperature': 23, 'Humidity': 25, 'Pressure': 70)
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THE PYTHON SCRIPT IS DEVELOPED SUCCESSFULLY.