# Setting Up the IoT Device with AWS IoT Core

Group 8

Fozeya-Nikka Alviar

Angeline Nicole Faina

Sam Omandam

CYT160NBB

5 November 2025

Prof. Saeed Naghizadeh Qomi

# MCP9808 Temperature Sensor

```
venv: error: the following arguments are required: ENV_DIR
pi@CYT160Project:~ $ python3 -m venv
usage: venv [-h] [--system-site-packages] [--symlinks | --copies] [-
            [--upgrade] [--without-pip] [--prompt PROMPT] [--upgrade
            [--without-scm-ignore-files]
            ENV_DIR [ENV_DIR ...]
venv: error: the following arguments are required: ENV_DIR
pi@CYT160Project:~ $ source iot_project_env/bin/activate
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.5625 °C
(iot_project_env) pi@CYT160Project:~ $
```

# Interpreting the Temperature Sensor Reading

```
            [--without-scm-ignore-files]
            ENV_DIR [ENV_DIR ...]
venv: error: the following arguments are required: ENV_DIR
pi@CYT160Project:~ $ source iot_project_env/bin/activate
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.5625 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.5 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.5 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.3125 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.1875 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.3125 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.375 °C
(iot_project_env) pi@CYT160Project:~ $ python3 sensor_test.py
Temperature: 24.375 °C
(iot_project_env) pi@CYT160Project:~ $
```

# View Messages in the AWS IoT Console