# NAAN MUDHALVAN – PROFESSIONAL READINESS FOR INNOVATION, EMPLOYMENT AND ENTERPRENEURSHIP

#### **ASSIGNMENT – 2**

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#### **QUESTION:**

Build Python code, Generate Temperature and Humidity values (Use Random function to generate values) and write a condition to detect an alarm in case of high temperature and high Humidity.

- Example: Temp is greater than 30 c, play alarm sound. Same for humidity.
- Submit the Assignment in PDF format in the Git repo.
- Everyone in the team should submit the assignment as it is an individual task.

### Code:

```
main.py
```

import random

# Set the threshold values for temperature and humidity TEMP\_THRESHOLD = 85 # degrees Celsius HUMIDITY THRESHOLD = 45 # percent

# Generate a random temperature value between 0 and 100 degrees Celsius temperature = random uniform(0, 100) print("Temperature:", temperature

# Generate a random humidity value between 0 and 100 percent humidity random.uniform(0, 100)

print("Humidity:", humidity)

# Check if either temperature or humidity is above the threshold if temperature>TEMP\_THRESHOLD:

print("High temperature alarm!") if

humidity> HUMIDITY THRESHOLD:

print("High humidity alarm!")

## **OUTPUT:**



