# 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.

- o Example: Temp is greater than 30 c, play alarm sound. Same for humidity.
- o Submit the Assignment in PDF format in the Git repo.
- o 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:**



