NAAN MUDHALVAN – PROFESSIONAL READINESS FOR INNOVATION, EMPLOYMENT AND ENTERPRENEURSHIP

ASSIGNMENT – 2

STUDENT NAME	**:**	**SHOBIKA R**
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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: