

MAHENDRA INSTITUTE OF TECHNOLOGY(AUTONOMOUS)

Ideation Phase Define the Problem Statements

1. Build a python code, Assume u get temperature and humidity values(generated with random function to a variable) and a write a condition to continuously detect alarm in case of high temperature.

Python Code:

```
import random
import time

while(True):
    temperature= random. randint(0,1024)
    print(f' Temperature = {temperature}')
    if temp>600:
        print('Temperature is high\n ===== ')

    time.sleep(4)
```

EDITOR WINDOW:

A screenshot of a Python IDE editor window. The window has a title bar with a Python logo, a file name 'main.py', and buttons for 'Run', 'Close', and 'Save'. The code is displayed in a light blue background with syntax highlighting. The code is as follows:

```
1 import random
2 import time
3
4 while(True):
5     temperature =random.randint(0,1024)
6     print(f'Temperature = {temperature}')
7     if temperature>600:
8         print('Temperature is high\n ===== ')
9
10    time.sleep(4)
11
```

OUTPUT WINDOW:

```
Temperature = 13
Temperature = 65
Temperature = 855
Temperature is high
=====
Temperature = 993
Temperature is high
=====
```