IBM ASSIGNMENT 2

To get Temperature and Humidity Values in Python Code

AIM:

To get temperature and humidity values with random function to a variable and write a condition to detect alarm in high temperature.

SOFTWARE USED:

Python Idle 3.10 (64-bit)

PROGRAM:

```
import random
import time  while
True:
temp=random.randint(0,70)
humd=random.randint(10,60)  if
temp > 50 and humd < 20:
print("Temperature=",temp,end=" ")
print("Humidity=",humd,"#########ALARM ON#######")
time.sleep(3)  else:
print("Temperature=",temp,end=" ")
print("Humidity=",humd)  time.
Sleep(1)
```

OUTPUT:

temperature= 18 humidity= 61

temperature= 52 humidity= 61

temperature= 4 humidity= 63 temperature=

27 humidity= 38 temperature= 48

humidity= 59 temperature= 17 humidity=

48 temperature= 15 humidity= 46

temperature= 50 humidity= 29

ALARM ON

SIMULATION OUTPUT:

```
Temperature=  30  Humidity=  42
Temperature=  36  Humidity=  35
Temperature=  24  Humidity=  47
Temperature=  52  Humidity=  30
Temperature=  11  Humidity=  58
Temperature=  50  Humidity=  43
Temperature=  68  Humidity=  45
Temperature=  63  Humidity=  23
Temperature=  55  Humidity=  18   ###########ALARM  ON##########
Temperature=  45  Humidity=  46
Temperature=  54  Humidity=  59
Temperature=  28  Humidity=  29
Temperature=  42  Humidity=  55
Temperature=  6  Humidity=  28
Temperature=  6  Humidity=  48
Temperature=  63  Humidity=  20
Temperature=  32  Humidity=  53
Temperature=  30  Humidity=  44
Temperature=  22  Humidity=  32
```

RESULT:

I have successfully coded for temperature and humidity values with random function to a variable and write a condition to detect alarm in high temperature.