

ASSIGNMENT 2

PROBLEM:

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

CODE:

```
import random
temperature=random.randint(1,100)
humidity=random.randint(1,100)
print(temperature)
print(humidity)
if((temperature<50) & (humidity<40)):
    print("temperature is normal")
    print("humidity is normal")
    print("alarm off")
elif((temperature<50)&(humidity >40)):
    print("temperature is low")
    print("humidity is high")
    print("alarm off")
elif((temperature>60)&(humidity <40)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")
elif((temperature>60)&(humidity >40)):
    print("temperature is high")
    print("humidity is low")
    print("alarm on")
else:
    print("temperature is very low")
    print("humidity is low")
    print("alarm off")
```

CODE:

```
import random
temperature=random.randint(1,100)
humidity=random.randint(1,100)
print(temperature)
print(humidity)
if((temperature<50) & (humidity<40)):
    print("temperature is normal")
    print("humidity is normal")
    print("alarm off")
elif((temperature<50)&(humidity >40)):
    print("temperature is low")
    print("humidity is high")
    print("alarm off")
elif((temperature>60)&(humidity <40)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")
elif((temperature>60)&(humidity >40)):
    print("temperature is high")
    print("humidity is low")
    print("alarm on")
else:
    print("temperature is very low")
    print("humidity is low")
    print("alarm off")
```

OUTPUT:

```
55
temperature is high
humidity is low
alarm on

...Program finished with exit code 0
Press ENTER to exit console. █
```