

Assignment -2
Python Programming

Assignment Date	28 September 2022
Student Name	ASWINI A
Student Roll Number	962819106008
Maximum Marks	2 Marks

Question-1:

Build a python code, assume you 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.

Solution:

```
import random
temperature=random.uniform(1,600)
humidity=random.uniform(1,600)
high_temp=57
if temperature>=high_temp:
    print("ALARM ON")
    print(temperature)
else:
    print("ALARM OFF")
    print(temperature)
```



The screenshot displays a Python IDE window titled 'alarm.py - C:\Users\HP\Desktop\New folder\alarm.py (3)'. The code in the editor is as follows:

```
import random
temperature=random.uniform(1,600)
humidity=random.uniform(1,600)
high_temp=57
if temperature>=high_temp:
    print("ALARM ON")
    print(temperature)
else:
    print("ALARM OFF")
    print(temperature)
```

The IDE Shell window shows the output of the script:

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\HP\Desktop\New folder\alarm.py =====
ALARM ON
320.2785952893482
>>>
```