

## Assignment -1

### Python Programming

Assignment Date	19 September 2022
Student Name	Mr. Arputharaja.S
Student Roll Number	711619106002
Maximum Marks	2 Marks

#### Question-1:

Buld a python code,assume you get temperature and humidity valur (generate with random function to a variable)and write a condition to continously detect alarm in casr or high temperature.

<b>Solution:</b>	
	import random
	while(True):
	a=random.randint(10,99)
	b=random.randint(10,99)
	if(a>25 and b>70):
	print("Temperature and humidity of:",a,b,"%","Alarm is on")
	elif(a<25 and b<70):
	print("Temperature and humidity of:", a,b,"%","Alarm is off")
	break

The screenshot shows a Python IDE with two windows. The left window displays the code from the solution table, and the right window shows the output of the program.

```

thermal.py - (2)Users\11001\AppData\Local\Microsoft\Windows\Python\Python110\thermal.py (1.7.0)
File Edit Format Run Options Window Help
import random
while(True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    if(a>25 and b>70):
        print("Temperature and humidity of:",a,b,"%","Alarm is on")
    elif(a<25 and b<70):
        print("Temperature and humidity of:", a,b,"%","Alarm is off")
    break

Python 3.10.7 (tags/v3.10.7:Gos013, Sep 5 2022, 14:08:30) [AMD64] on win32
Type "help", "copyright", "credits" or "quit()"
>>>
== RESTART: C:\Users\11001\AppData\Local\Microsoft\Windows\Python\Python110\thermal.py ==
Temperature and humidity of: 34 85 % Alarm is on
Temperature and humidity of: 34 85 % Alarm is on
Temperature and humidity of: 99 99 % Alarm is on
Temperature and humidity of: 99 99 % Alarm is on
Temperature and humidity of: 36 94 % Alarm is on
Temperature and humidity of: 66 66 % Alarm is on
Temperature and humidity of: 89 70 % Alarm is on
Temperature and humidity of: 84 84 % Alarm is on
Temperature and humidity of: 21 10 % Alarm is off
>>>

```