

## **Assignment 1**

**Assignment Date :** 19 September 2022

**Student Name :** Kathiravan R

**Student Roll No :** 622419104023

**Maximum Marks :** 2 Marks

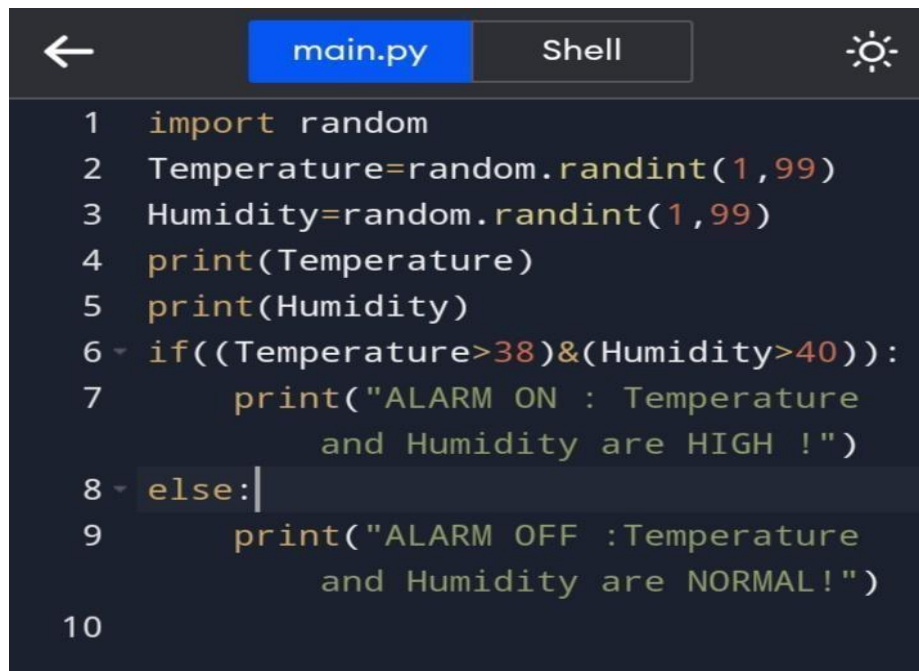
**Project Name :** IoT based safety gadget for child  
safety monitoring notification

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.

### **PYTHON CODE**

```
import random
Temperature=random.randint(1,99)
Humidity=random.randint(1,99)
print(Temperature)
print(Humidity)
if((Temperature>38)&(Humidity>40)):
    print("ALARM ON : Temperature and Humidity are HIGH !")else:
    print("ALARM OFF :Temperature and Humidity are NORMAL!")
```

## INPUT



The image shows a code editor window with a dark background. At the top, there is a navigation bar with a back arrow on the left, a tab labeled 'main.py' in the center, and a 'Shell' button on the right. A settings gear icon is located in the top right corner. The main area of the editor contains a Python script with 10 lines of code. The code imports the 'random' module, generates random temperature and humidity values, and prints them. It then uses an if-else statement to check if both values are high (above 38 and 40 respectively). If they are, it prints 'ALARM ON : Temperature and Humidity are HIGH !'. Otherwise, it prints 'ALARM OFF : Temperature and Humidity are NORMAL!'. The line numbers 1 through 10 are visible on the left side of the code block.

```
1 import random
2 Temperature=random.randint(1,99)
3 Humidity=random.randint(1,99)
4 print(Temperature)
5 print(Humidity)
6 if((Temperature>38)&(Humidity>40)):
7     print("ALARM ON : Temperature
8         and Humidity are HIGH !")
9 else:
10    print("ALARM OFF :Temperature
        and Humidity are NORMAL!")
```

mai n.py

Snell

*mai*

*Shel*

17

48

ALARM OFF : Teirpe and Huiki i d ↑ a ce

**TEAM LEADER:** Dharani B

**TEAM MEMBERS:**

- Amarnath L
- Harish Kumar U
- Kathiravan R

**TEAM ID :** PNT2022TMID41842

**TEAM SIZE :** 4

