## Assignment -2

## **Python Programming**

Assignment Date	24 September 2022	
Student Name	HARITHAA G	
Student Roll Number	722819104045	
Maximum Marks	2 Marks	

## Question-1:

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.

```
Solution:
Import random

def alert(msg):
    print(msg)

def read_humidity_from_sensor():
    return random.randint(10,100)

def read_temperature_from_sensor():
    return random.randint(-100,100)

def start_tracking():
    while True:
        temperature = read_temperature_from_sensor()
        humidity = read_humidity_from_sensor()
```

```
if temperature >= 40:
      alert("High Temperature")
    elif temperature <= 25 and temperature >= 10:
      alert("Low Temperature")
    elif temperature <= 10:
      alert("Very Low Temperature")
    else:
      alert("Normal Temperature")
    if humidity >= 80:
      alert("Very High Humidity")
    elif humidity >= 50:
      alert("High Humidity")
    elif humidity <= 30:
      alert("Low Humidity")
    else:
      alert("Moderate Humidity")
if __name__ == "__main__":
  start_tracking()
```

## **OUTPUT:**

