

Assignment -2

Team ID	PNT2022TMID19147
Project Name	Gas Leakage Monitoring and Alerting System

Problem statement:

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

Code:

```
import random
```

```
import time
```

```
def get_temp():
```

```
    return random.randint(0, 100)
```

```
def get_humidity():
```

```
    return random.randint(0, 100)
```

```
def check_temp(temp):
```

```
    if temp > 90:
```

```
        print("Temperature is too high")
```

```
        return True
```

```
    else:
```

```
        return False
```

```
def check_humidity(humidity):
```

```
    if humidity > 70:
```

```
        print("Humidity is too high")
```

```
        return True
```

```
    else:
```

```
        return False
```

```
def main():  
    while True:  
        temp = get_temp()  
        humidity = get_humidity()  
        if check_temp(temp) or check_humidity(humidity):  
            print("ALARM")  
        else:  
            print("Everything is fine")  
        time.sleep(1)  
  
if __name__ == "__main__":  
    main()
```