

ASSIGNMENT-2

#Build a python code to get temperature and humidity generated with random numbers and write a condition to continuously detect alarm in case of high temperature and humidity

```
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()
```

OUTPUT:

```
Select C:\Windows\py.exe
Temperature is too high
ALARM
Everything is fine
Temperature is too high
ALARM
Humidity is too high
ALARM
Everything is fine
Humidity is too high
ALARM
Humidity is too high
ALARM
Everything is fine
Everything is fine
Humidity is too high
ALARM
Humidity is too high
ALARM
Everything is fine
Everything is fine
```