# **ASSIGNMENT 2**

Name: Sabariya.A

(113119UG04086)

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.

## **PROGRAM:**

```
import random
temprature=random.sample(range(30,50),1)
print("Temprature is",temprature)
if(temprature>=[46]):
  print("High Temprature")
  print("Alarm is on")
else:
  print("Temprature is Normal")
humidity=random.sample(range(30,50),1)
print("Humidity is",humidity)
if(humidity > = [50]):
  print("Humidity level is High")
else:
  print("Humidity level is Low")
soil_moisture=random.sample(range(30,60),1)
print("Soil Moisture is",soil_moisture)
if(soil_moisture>=[50]):
  print("Soil Moisture level is Normal")
else:
```

```
print("Soil Moisture level is Low")
print("Water Pump is on")
```

### **SCREENSHOTS:**

#### > CODE:

```
Assignment2.py - D:/Project/IBM Project/Assignment2.py (3.6.7)

File Edit Format Run Options Window Help
```

```
import random
temprature=random.sample(range(30,50),1)
print("Temprature is", temprature)
if (temprature>=[46]):
   print("High Temprature")
   print("Alarm is on")
else:
   print("Temprature is Normal")
humidity=random.sample(range(30,50),1)
print("Humidity is", humidity)
if (humidity>=[50]):
   print("Humidity level is High")
else:
    print("Humidity level is Low")
soil moisture=random.sample(range(30,60),1)
print("Soil Moisture is", soil moisture)
if(soil moisture>=[50]):
   print("Soil Moisture level is Normal")
   print("Soil Moisture level is Low")
   print("Water Pump is on")
```

#### **OUTPUT:**

```
| See Not Shell Debug Options Window Help
| Python 3.6.7 (v3.6.7:6ec562457, oct 20 2018, 13:35:33) [MSC v.1900 64 bit (AMD64)] on win32 |
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help", "copyright", "credits" or "license()" for more information.
| Type "help" is [37] |
| Temprature is Normal |
| Humidity is [37] |
| Temprature is Normal |
| Humidity is [37] |
| Humidity level is Low |
| Soil Moisture lev
```