SmartFarmer - IoT Enabled Smart Farming Application

IoT Assignment 2

Topic : Alarm detection based on temperature and humidity using Python3

Team lead : Alfrin Samraj P

Team members : Abishek Danny S, Chris Rodriquez David Samuel and Kabilan M

College name : St Joseph's College of Engineering

Department : Information Technology

Aim :

To create an alarm to detect the temperature rise based on the temperature and humidity as parameters using python3.

Algorithm :

1. Start the program.
2. Get the values of temperature and humidity as input.
3. Based on given values and conditions, determine whether the alarm is triggered or not.
4. Stop the program.

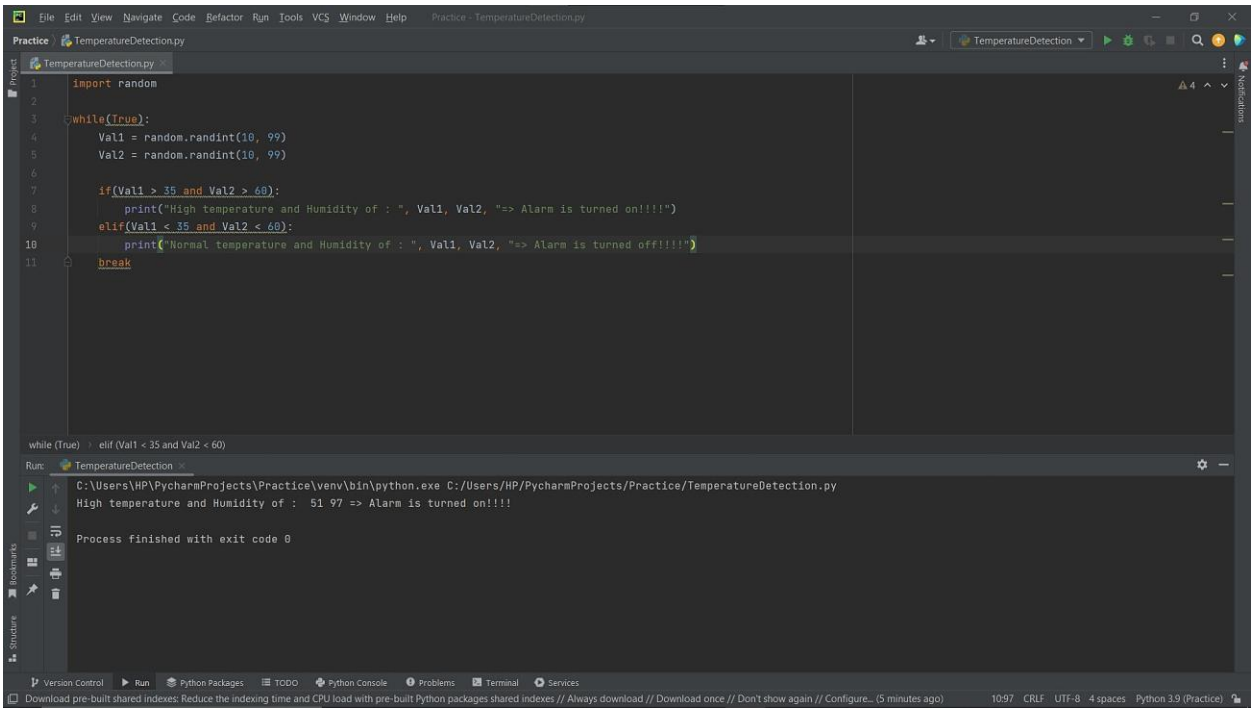
Program :

```
import random

while(True):
   Val1 = random.randint(10, 99)
   Val2 = random.randint(10, 99)

   if(Val1 > 35 and Val2 > 60):
      print("High temperature and Humidity of : ", Val1, Val2, "=> Alarm is turned on!!!!")
   elif(Val1 < 35 and Val2 < 60):
      print("Normal temperature and Humidity of : ", Val1, Val2, "=> Alarm is turned off!!!!")
   break
```

Block Diagram :



Result :

Thus, Alarm detection based on temperature and humidity using Python3 as assignment 2 has been successfully developed and executed.