Assignment -2

Python Programming

Assignment Date	01 October 2022
Student Name	E. Sneha
Student Roll Number	211519104152
Maximum Marks	2 Marks

Question-1:

Build a python code ,assume you get temperature and humidity values (generated from random function to a variable)and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random
temperature=random.randint(32,212)
humidity=random.randint(1,100)
if (temperature>99 and humidity>50):
   {
   print("Very high temperature(%d F) and very high humidity(%d) : Alarm is
ON" %(temperature,humidity))
}
elif(temperature<97 and humidity<30):
   {
   print("Ideal temperature(%d F) and  humidity(%d) : Alarm is OFF"
%(temperature,humidity))
}
else:
   {
    print("Very low temperature(%d F) and very low humidity(%d) : Alarm is ON"
%(temperature,humidity))
   }
```

```python
import random
temperature=random.randint(32,212)
humidity=random.randint(1,100)
if (temperature>99 and humidity>50):
    {
    print("Very high temperature(%d F) and very high humidity(%d) :
        Alarm is ON" %(temperature,humidity))
}
elif(temperature<97 and humidity<30):
    {
    print("Ideal temperature(%d F) and  humidity(%d) : Alarm is OFF" %
        (temperature,humidity))
}
else:
    {
     print("Very low temperature(%d F) and very low humidity(%d) :
         Alarm is ON" %(temperature,humidity))

    }
```

```
Very high temperature(156 F) and very high humidity(88) : Alarm is ON
```

```python
import random
temperature=random.randint(32,212)
humidity=random.randint(1,100)
if (temperature>99 and humidity>50):
    {
    print("Very high temperature(%d F) and very high humidity(%d) :
        Alarm is ON" %(temperature,humidity))
}
elif(temperature<97 and humidity<30):
    {
    print("Ideal temperature(%d F) and  humidity(%d) : Alarm is OFF" %
        (temperature,humidity))
}
else:
    {
     print("Very low temperature(%d F) and very low humidity(%d) :
         Alarm is ON" %(temperature,humidity))

    }
```

```
Ideal temperature(66 F) and  humidity(22) : Alarm is OFF
```

```python
import random
temperature=random.randint(32,212)
humidity=random.randint(1,100)
if (temperature>99 and humidity>50):
    {
    print("Very high temperature(%d F) and very high humidity(%d) :
        Alarm is ON" %(temperature,humidity))
}
elif(temperature<97 and humidity<30):
    {
    print("Ideal temperature(%d F) and  humidity(%d) : Alarm is OFF" %
        (temperature,humidity))
}
else:
    {
     print("Very low temperature(%d F) and very low humidity(%d) :
         Alarm is ON" %(temperature,humidity))

    }
```

```
Very low temperature(33 F) and very low humidity(85) : Alarm is ON
```