IoT ASSIGNMENT

TOPIC : Assignment on temperature and humidity sensing and alarm automation using python

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CODE :

```python
import random    #importing random values
import time      #importing time to introduce delay between instantaneous random values
while (True):   #looping the random values
     time.sleep(1)
     a=random.randint(10,70)   #getting random values as a for temperature
     b=random.randint(10,99)   #getting random values as a for humidity

     if(a>35 and b>60):
          print("high temperature and humidity of:",a,b,"%","alarm is on")
     elif(a<35 and b<60):
          print("Normal temperature and humidity of:",a,b,"%","alarm is off")
     continue
```

OUTPUT :

File   Edit   Format   Run   Options   Window   Help

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import random     #importing random values
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while (True):    #looping the random values
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  if(a>35 and b>60):
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  elif(a<35 and b<60):
    print("Normal temperature and humidity of:",a,b,"%","alarm is off")
  continue
```

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IDLE Shell 3.10.7

File   Edit   Shell   Debug   Options   Window   Help

```
Normal temperature and humidity of: 28 32 % alarm is off
high temperature and humidity of: 52 85 % alarm is on
high temperature and humidity of: 58 88 % alarm is on
Normal temperature and humidity of: 17 38 % alarm is off
high temperature and humidity of: 65 70 % alarm is on
Normal temperature and humidity of: 11 32 % alarm is off
Normal temperature and humidity of: 14 24 % alarm is off
high temperature and humidity of: 56 78 % alarm is on
high temperature and humidity of: 41 64 % alarm is on
high temperature and humidity of: 38 90 % alarm is on
Normal temperature and humidity of: 26 40 % alarm is off
Normal temperature and humidity of: 23 42 % alarm is off
high temperature and humidity of: 42 84 % alarm is on
high temperature and humidity of: 37 91 % alarm is on
Normal temperature and humidity of: 12 37 % alarm is off
Normal temperature and humidity of: 32 12 % alarm is off
Normal temperature and humidity of: 23 46 % alarm is off
high temperature and humidity of: 57 82 % alarm is on
Normal temperature and humidity of: 13 23 % alarm is off
high temperature and humidity of: 59 70 % alarm is on
high temperature and humidity of: 65 84 % alarm is on
```

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