IoT ASSIGNMENT

TOPIC : Assignment on tempeíatuíe and humidity sensing and alaím automationusing python

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```
impoít íandom      #impoíting íandom values
impoít time        #impoíting time to intíoduce delay between instantaneous
íandom values
while  (l'íue):  #looping the íandom values
      time.sleep(1)
      a=íandom.íandint(10,70)      #getting íandom values as a foí
tempeíatuíe
      b=íandom.íandint(10,99)      #getting íandom values as a foí humidity

      if(a>35 and b>60):
            píint("high tempeíatuíe and humidity of:",a,b,"%","alaím is on")
      elif(a<35 and b<60):
            píint("Noímal tempeíatuíe and humidity of:",a,b,"%","alaím is
off")
      continue
```

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```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
```

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IDLE Shell 3.10.7   —   □   ✕

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```
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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