ASSIGNMENT 2

To detect an alarm in case of high temperature continuously

DATE	25 - 09 -2022
TEAM ID	PNT2022MID49683
PROJECT NAME	Smart Crop Protection Systems IoT Based

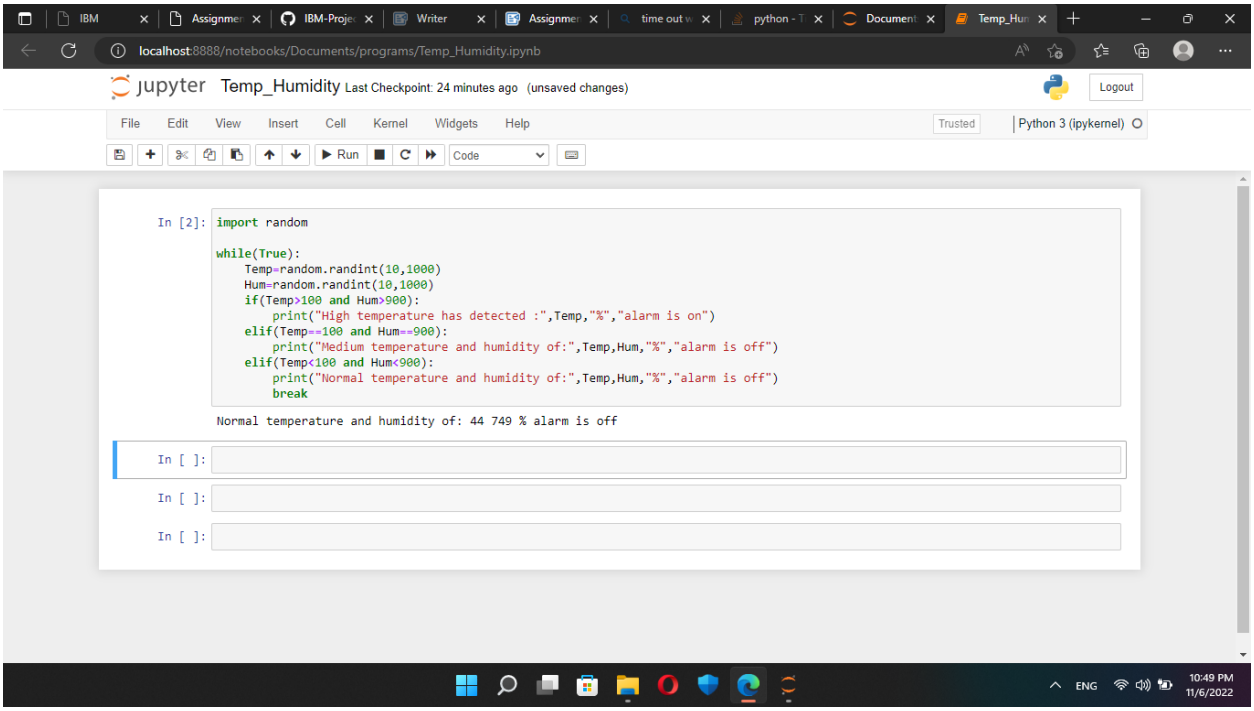
Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Program:

```
import random

while(True):
  Temp=random.randint(10,1000)
  Hum=random.randint(10,1000)
  if(Temp>100 and Hum>900):
    print("High temperature has detected :",Temp,"%","alarm is on")
  elif(Temp==100 and Hum==900):
    print("Medium temperature and humidity of:",Temp,Hum,"%","alarm is off")
  elif(Temp<100 and Hum<900):
    print("Normal temperature and humidity of:",Temp,Hum,"%","alarm is off")
    break
```

OUTPUT:


localhost:8888/notebooks/Documents/programs/Temp_Humidity.ipynb
jupyter Temp_Humidity Last Checkpoint: 24 minutes ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [2]:
import random
while(True):
Temp=random.randint(10,1000)
Hum=random.randint(10,1000)
if(Temp>100 and Hum>900):
print("High temperature has detected :",Temp,"%","alarm is on")
elif(Temp==100 and Hum==900):
print("Medium temperature and humidity of:",Temp,Hum,"%","alarm is off")
elif(Temp<100 and Hum<900):
print("Normal temperature and humidity of:",Temp,Hum,"%","alarm is off")
break
Normal temperature and humidity of: 44 749 % alarm is off
In [ ]:
In [ ]:
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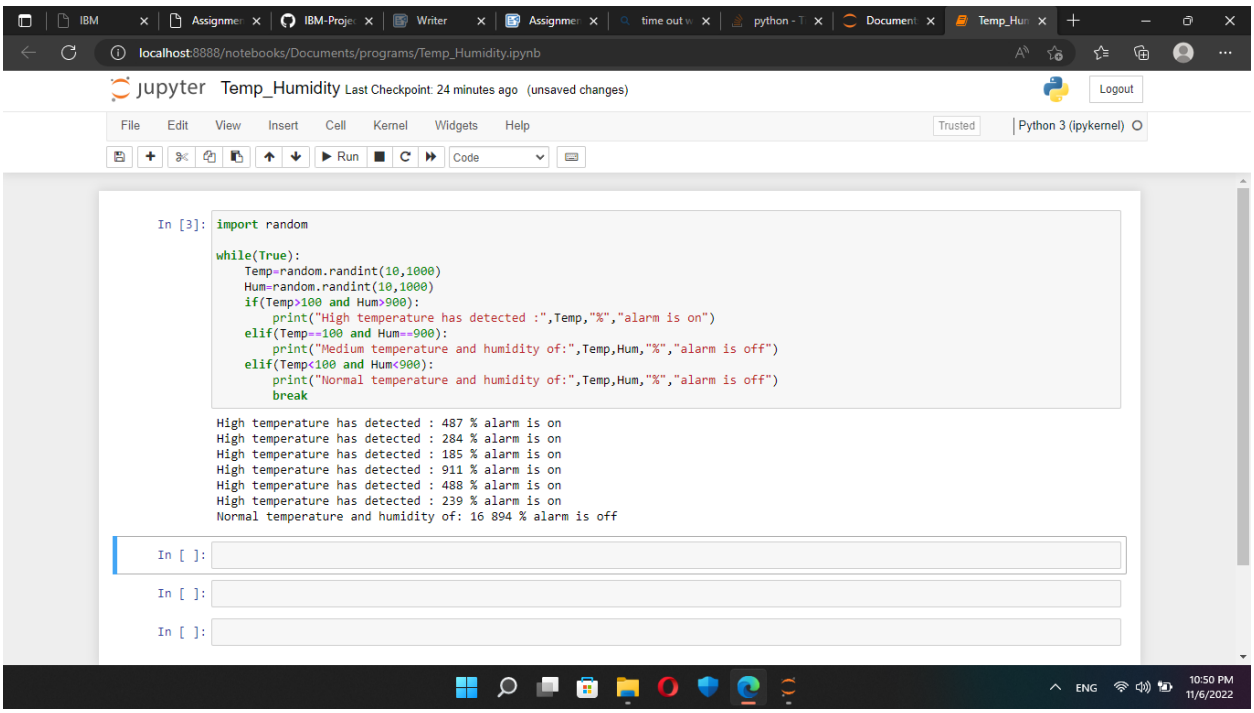
localhost:8888/notebooks/Documents/programs/Temp_Humidity.ipynb
jupyter Temp_Humidity Last Checkpoint: 24 minutes ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [3]:
import random
while(True):
Temp=random.randint(10,1000)
Hum=random.randint(10,1000)
if(Temp>100 and Hum>900):
print("High temperature has detected :",Temp,"%","alarm is on")
elif(Temp==100 and Hum==900):
print("Medium temperature and humidity of:",Temp,Hum,"%","alarm is off")
elif(Temp<100 and Hum<900):
print("Normal temperature and humidity of:",Temp,Hum,"%","alarm is off")
break
High temperature has detected : 487 % alarm is on
High temperature has detected : 284 % alarm is on
High temperature has detected : 185 % alarm is on
High temperature has detected : 911 % alarm is on
High temperature has detected : 488 % alarm is on
High temperature has detected : 239 % alarm is on
Normal temperature and humidity of: 16 894 % alarm is off
In [ ]:
In [ ]:
In [ ]:
ENG
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11/6/2022