Assignment -1

Assignment Date	26 September 22
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Maximum Marks	2 Marks

Question-1:

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

Solution:

```
# import the random and time librarys
import random
import time

# iterate the random values of Temperature and humidity within the specified
range
while True:
    temp = random.randint(35, 209)
    humi = random.randint(0, 100)

    #print the values of Temperature and humidity
    print("Temperature is : "+str(temp)+"F")
    print("Temperature in celsius : "+str(((temp-32)*5)//9)+"?")
    print("The Humidity is : "+str(humi)+"%")

    # check if the temperature values are higher than 100F
    if (temp >= 100):
        print("High Temperature Alert : "+str(temp)+"F")
    time.sleep(10)
```

Programiz
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main.py — **Run** — Shell

```python
1   # import the random and time librarys
2   import random
3   import time
4
5   # iterate the random values of Temperature and humidity within the
        specified range
6   while True:
7       temp = random.randint(25, 203)
8       humi = random.randint(0, 100)
9
10      #print the values of Temperature and humidity
11      print("Temperature is : "+str(temp)+"°F")
12      print("Temperature in celsius : "+str(((temp-32)*5)//9)+"?")
13      print("The Humidity is : "+str(humi)+"%")
14
15      # check if the temperature values are higher than 100°F
16      if (temp >= 100):
17          print("High Temperature Alert : "+str(temp)+"°F")
18      time.sleep(10)
```

Shell output:
```
Temperature is : 65°F
Temperature in celsius :
The Humidity is : 2%
Temperature is : 173°F
Temperature in celsius :
The Humidity is : 13%
High Temperature Alert :
Temperature is : 162°F
Temperature in celsius :
The Humidity is : 29%
High Temperature Alert :
```