

## ASSIGNMENT-2

### Python Programming

Assignment Date	25 September 2022
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Student Roll Number	813819106067
Maximum Marks	2 Marks

#### Question-1:

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

#### Solution:

```
import random
```

```
temperature=random.uniform(0,50)
#by using random.uniform function a
random float value will be generated
for temperature for
example:25.718184973594976
print(temperature)
```

```
temperature=round(temperature, 1)
#by using round of function the
decimal points in the temperature will
be reduced for example:25.7
```

```
print(temperature)
```

```
#by using if condtion & elif condition
the temperature level is observed
if(temperature==0):
    print("very cold")
```

```
elif(temperature<=10):
    print("cold")
elif(temperature<=20):
    print("Room temperature")
elif(temperature<=30):
    print("hot")
```

```
elif(temperature>30):
    print("very hot alarm will be on")
```

else:

print("surface of the sun")

humidity=random.randint(0,100)

#by using random.randint function a  
random int value will be generated for  
humidity for example:55

print (humidity)

#by using if condition & elif condition  
the humidity level is observed

if(humidity==0):

print("no humidity")

elif(humidity<=50):

print("humidity will be low")

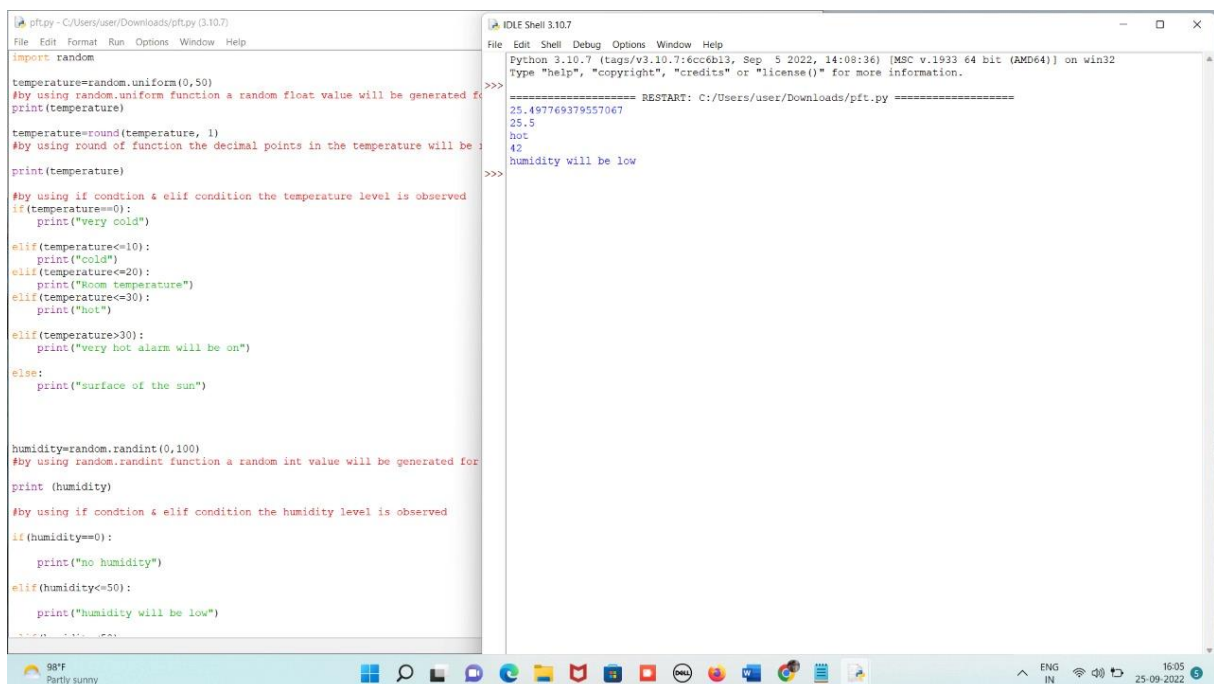
elif(humidity<50):

print("humidity is medium")

else:

print("humidity is high  
alarm will be on")

OUTPUT:



```
ptf.py - C:/Users/user/Downloads/ptf.py (3.10.7)
File Edit Format Run Options Window Help

import random
temperature=random.uniform(0,50)
#by using random.uniform function a random float value will be generated for
print(temperature)
temperature=round(temperature, 1)
#by using round of function the decimal points in the temperature will be
print(temperature)
#by using if condition & elif condition the temperature level is observed
if(temperature==0):
    print("very cold")
elif(temperature<=10):
    print("cold")
elif(temperature<=20):
    print("room temperature")
elif(temperature<=30):
    print("hot")
elif(temperature>30):
    print("very hot alarm will be on")
else:
    print("surface of the sun")

humidity=random.randint(0,100)
#by using random.randint function a random int value will be generated for
print (humidity)
#by using if condition & elif condition the humidity level is observed
if(humidity==0):
    print("no humidity")
elif(humidity<=50):
    print("humidity will be low")

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/user/Downloads/ptf.py =====
25.497769379557067
25.5
hot
42
humidity will be low
>>>
```

