Assignment -2

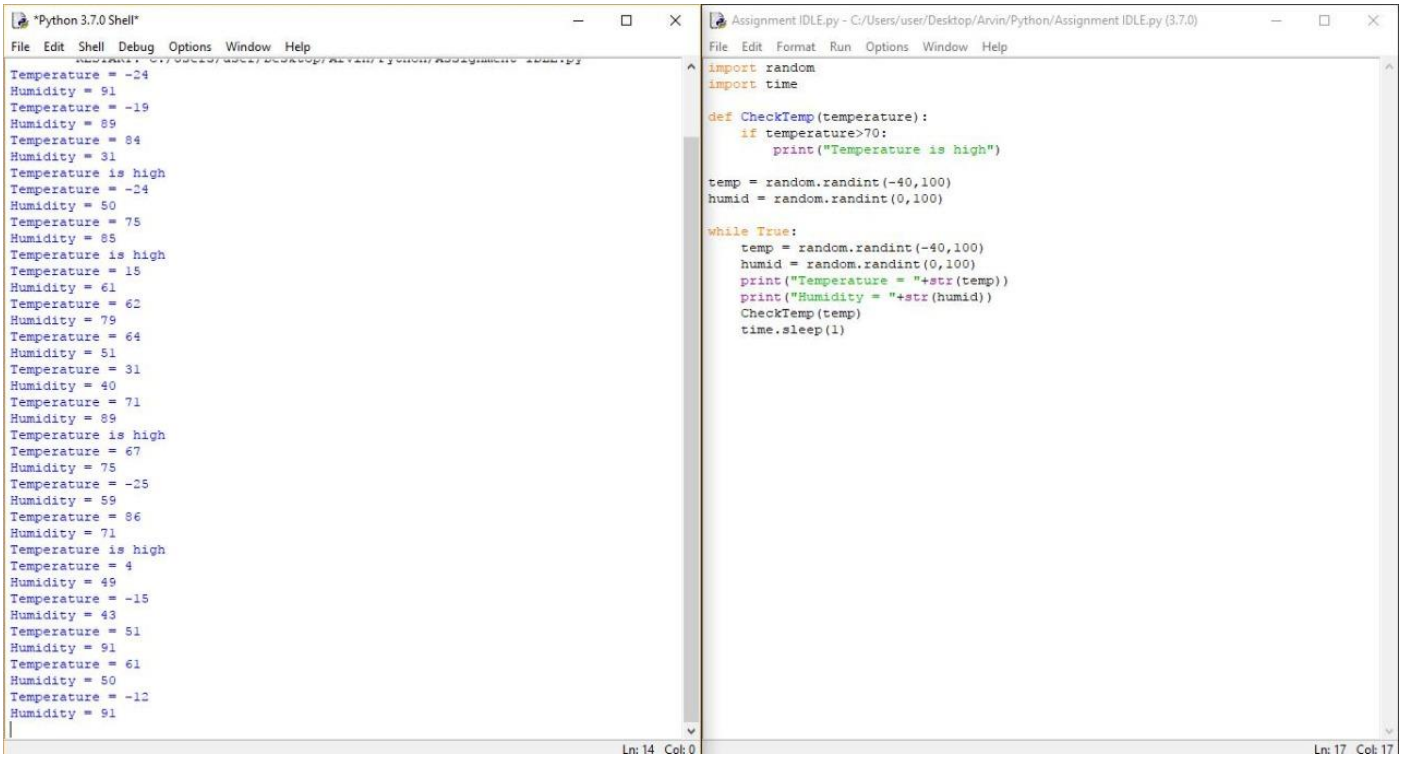
Assignment Date	21 September 2022
Student Name	Devakumar M.
Student Roll Number	611219106004
Maximum Marks	2 Marks

Question-1: Build a python code, Assume u get temperature 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 random import
time def
CheckTemp(temperature):
if temperature>70:
print("Temperature is
high") temp =
random.randint(-40,100)
humid =
random.randint(0,100)
while True: temp =
random.randint(-40,100)
humid =
random.randint(0,100)
print("Temperature =
"+str(temp))
print("Humidity =
"+str(humid))
CheckTemp(temp)
time.sleep(1)
```

Circuit :



Python 3.7.0 Shell

```
File  Edit  Shell  Debug  Options  Window  Help
Temperature = -24
Humidity = 91
Temperature = -19
Humidity = 89
Temperature = 84
Humidity = 31
Temperature is high
Temperature = -24
Humidity = 50
Temperature = 75
Humidity = 85
Temperature is high
Temperature = 15
Humidity = 61
Temperature = 62
Humidity = 79
Temperature = 64
Humidity = 51
Temperature = 31
Humidity = 40
Temperature = 71
Humidity = 89
Temperature is high
Temperature = 67
Humidity = 75
Temperature = -25
Humidity = 59
Temperature = 86
Humidity = 71
Temperature is high
Temperature = 4
Humidity = 49
Temperature = -15
Humidity = 43
Temperature = 51
Humidity = 91
Temperature = 61
Humidity = 50
Temperature = -12
Humidity = 91
```

Ln: 14 Col: 0

Assignment IDLE.py - C:/Users/user/Desktop/Arvin/Python/Assignment IDLE.py (3.7.0)

```
File  Edit  Format  Run  Options  Window  Help
import random
import time

def CheckTemp(temperature):
    if temperature>70:
        print("Temperature is high")

temp = random.randint(-40,100)
humid = random.randint(0,100)

while True:
    temp = random.randint(-40,100)
    humid = random.randint(0,100)
    print("Temperature = "+str(temp))
    print("Humidity = "+str(humid))
    CheckTemp(temp)
    time.sleep(1)
```

Ln: 17 Col: 17