ASSIGNMENT-2

PYTHON PROGRAMMING

Assignment Date	01 October 2022
Student Name	Sandhiya lakshmi M
Student Roll Num	2019pitcs139
Maximum Mark	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.

PYTHON PROGRAM

```
import requests
#import os
from datetime import datetime
                                                                    In [39]:
api key = '4485e56ab6de9a91047e8fbeed6a7902'
location = input("Enter the city name: ")
complete api link =
"https://api.openweathermap.org/data/2.5/weather?q="+location+"&appid="+api k
api link = requests.get(complete api link)
api data = api link.json()
#create variables to store and display data
temp city = ((api data['main']['temp']) - 273.15)
weather desc = api data['weather'][0]['description']
hmdt = api data['main']['humidity']
wind spd = api data['wind']['speed']
date time = datetime.now().strftime("%d %b %Y | %I:%M:%S %p")
print ("----")
print ("Weather Stats for - {} || {}".format(location.upper(), date_time))
print ("-----")
print ("Current temperature is: {:.2f} deg C".format(temp city))
print ("Current weather desc :", weather desc)
print ("Current Humidity :",hmdt, '%')
print ("Current wind speed :",wind_spd ,'kmph')
print("========"")
# making a list so that i can print the info to a txt
txtlist = [temp city, weather desc, hmdt, wind spd, date time]
#using open() buit-in function to write to a text file
with open("textfile.txt" , mode= 'w' ,encoding= 'utf-8') as f :
```

```
#encoding = utf-8 for linux and cp1252 for win
   f.write("-----\n
   f.write("Weather Stats for - {} || {}".format(location.upper(),
date time))
   f.write("\n ------
   f.write("Current temperature is: {:.2f} deg C\n".format(txtlist[0]))
   f.write("\{\},\{\} \n".format("Current weather desc :",txtlist[1]))
   f.write("\{\}, \{\}, \{\}, \{\}  \n".format("Current Humidity :",txtlist[2],"%"))
   f.write("{},{},{} \n".format("Current wind speed
:",txtlist[3],"kmph"))
   f.write("==========="")
```

OUTPUT

Enter the city name: Gudiyatham ______ Weather Stats for - Gudiyatham 05-10-2022

Current temperature is: 30.99 deg C

Current weather desc : mist Current Humidity : 74 % Current wind speed : 2.57 kmph