**REPORT MAY 23**

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| **Date:** | **23 MAY 2020** | **Name: Krishna Swetha** |  | |
| **Course:** | **PYTHON On Udemy** | **USN:4AL16EC032** |  | |
| **Topic:** | **Python Revision,Python Code Challenge** | **Semester & Section:6th, B** |  | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session** | | | |
| **Report –**  **import folium**  **import pandas**  **data = pandas.read\_csv("Volcanoes.txt")**  **lat = list(data["LAT"])**  **lon = list(data["LON"])**  **elev = list(data["ELEV"])**  **def color\_producer(elevation):**  **if elevation < 1000:**  **return 'green'**  **elif 1000 <= elevation < 3000:**  **return 'orange'**  **else:**  **return 'red'**  **map = folium.Map(location=[38.58, -99.09], zoom\_start=6, tiles="Mapbox Bright")**  **fgv = folium.FeatureGroup(name="Volcanoes")**  **for lt, ln, el in zip(lat, lon, elev):**  **fgv.add\_child(folium.CircleMarker(location=[lt, ln], radius = 6, popup=str(el)+" m",**  **fill\_color=color\_producer(el), fill=True, color = 'grey', fill\_opacity=0.7))**  **fgp = folium.FeatureGroup(name="Population")**  **fgp.add\_child(folium.GeoJson(data=open('world.json', 'r', encoding='utf-8-sig').read(),**  **style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000**  **else 'orange' if 10000000 <= x['properties']['POP2005'] < 20000000 else 'red'}))**  **map.add\_child(fgv)**  **map.add\_child(fgp)**  **map.add\_child(folium.LayerControl())**  **map.save("Map1.html")**  **Python Code Challenge**  **print('Enter username and password')**  **attempts=0**  **while attempts < 3:**  **username = input('Enter username: ')**  **password = input('Enter password: ')**  **if password=='e3$WT89x' and username=='Michael':**  **print('Logged in successfully')**  **break**  **else:**  **print('Invalid Username or password. Try again.')**  **attempts += 1**  **if attempts==3 :**  **print("Account Locked")** | | | |