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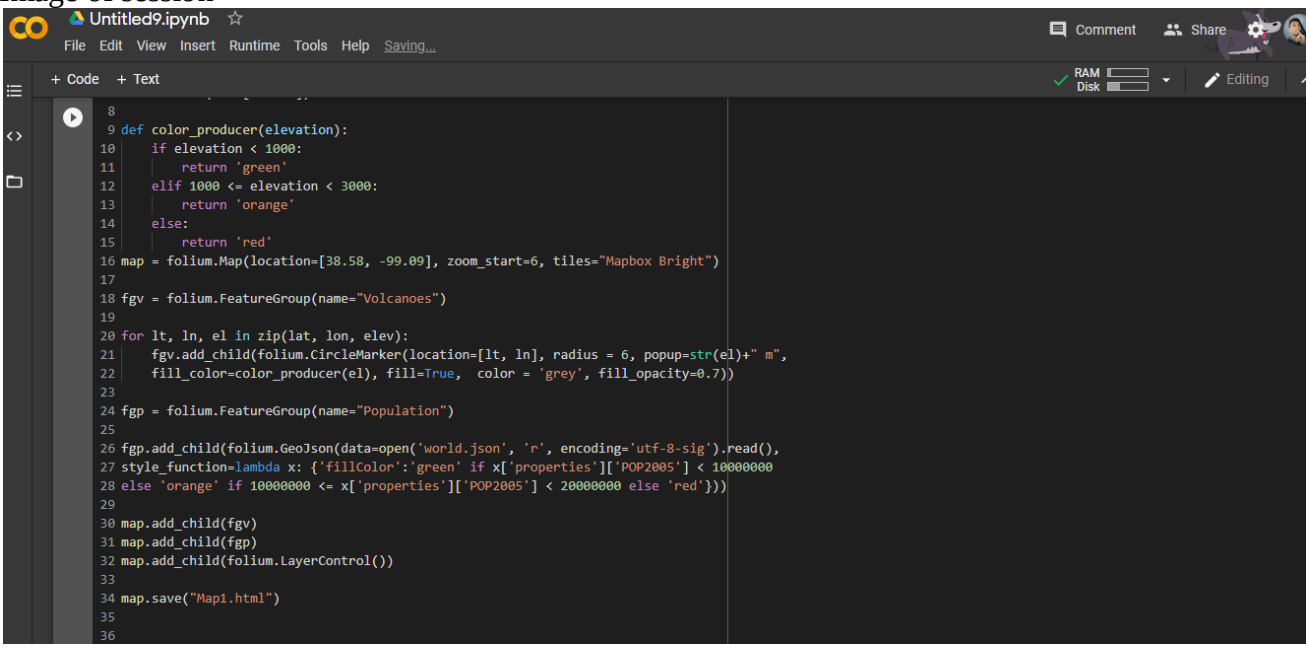
Course: PYTHON USN:4AL18EC400
Topic: Python Revision,Python Code Challenge Semester & Section:6 B

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

```
trial=0
while trial<3:
    username=input('Enter your username : ')
    password=input('Enter your password : ')
    if username=='Micheal' and password=='e3$WT89x':
        print('You have successfully login')
        break
    else:
        print('Invalid username or password')
        trial+=1
    if trial==3:
        print('Account locked')
```