

# REPORT MAY 23

Date: 23 MAY 2020  
Course: PYTHON On Udemey  
Topic: Python Revision, Python Code Challenge

Name: RAKSHITH B  
USN: 4AL16EC409  
Semester & Section: 6 B

## AFTERNOON SESSION DETAILS

### Image of session

The image shows two screenshots of a coding session. The top screenshot is a Google Colab notebook titled 'Interactive English Dictionary'. It contains Python code that imports files from Google Colab, loads a JSON file named 'data.json', and defines a function 'translate(w)' that uses a dictionary to translate words. The code also includes a loop to process input words and print the results. The bottom screenshot is an OnlineGDB IDE showing a Python script for a login simulation. The script prompts the user for a username and password, checks if they match 'Micheal' and 'e3\$Wt89x', and prints 'loggedin Successfully' or 'account locked' based on the input. The IDE interface includes a sidebar with navigation links and a terminal window showing the program's output.

```
1 from google.colab import files
2 uploaded = files.upload()
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21 word=input("enter the words: ")
22 output = translate(word)
23 if type(output)==list:
24     for item in output :
25         print(item)
26 else:
```

```
1 attempt=0
2 while attempt<3:
3     input1=input("enter the username : ")
4     input2=input("enter the password : ")
5     if input1=="Micheal" and input2=="e3$Wt89x":
6         print('loggedin Successfully')
7         break
8     else :
9         print('invalid username or password')
10        attempt+=1
11 if attempt==3:
12     print("account locked")
```

enter the username : Micheal  
enter the password : e3\$Wt89x  
loggedin Successfully

...Program finished with exit code 0  
Press ENTER to exit console.

## 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

```
attempt=0
while attempt<3:
    input1=input("enter the username : ")
    input2=input("enter the password : ")
    if input1=='Micheal' and input2=='e3$WT89x':
        print('loggedin Successfully')
        break
    else :
        print('invalid username or password')
        attempt+=1
if attempt==3:
    print("account locked")
```