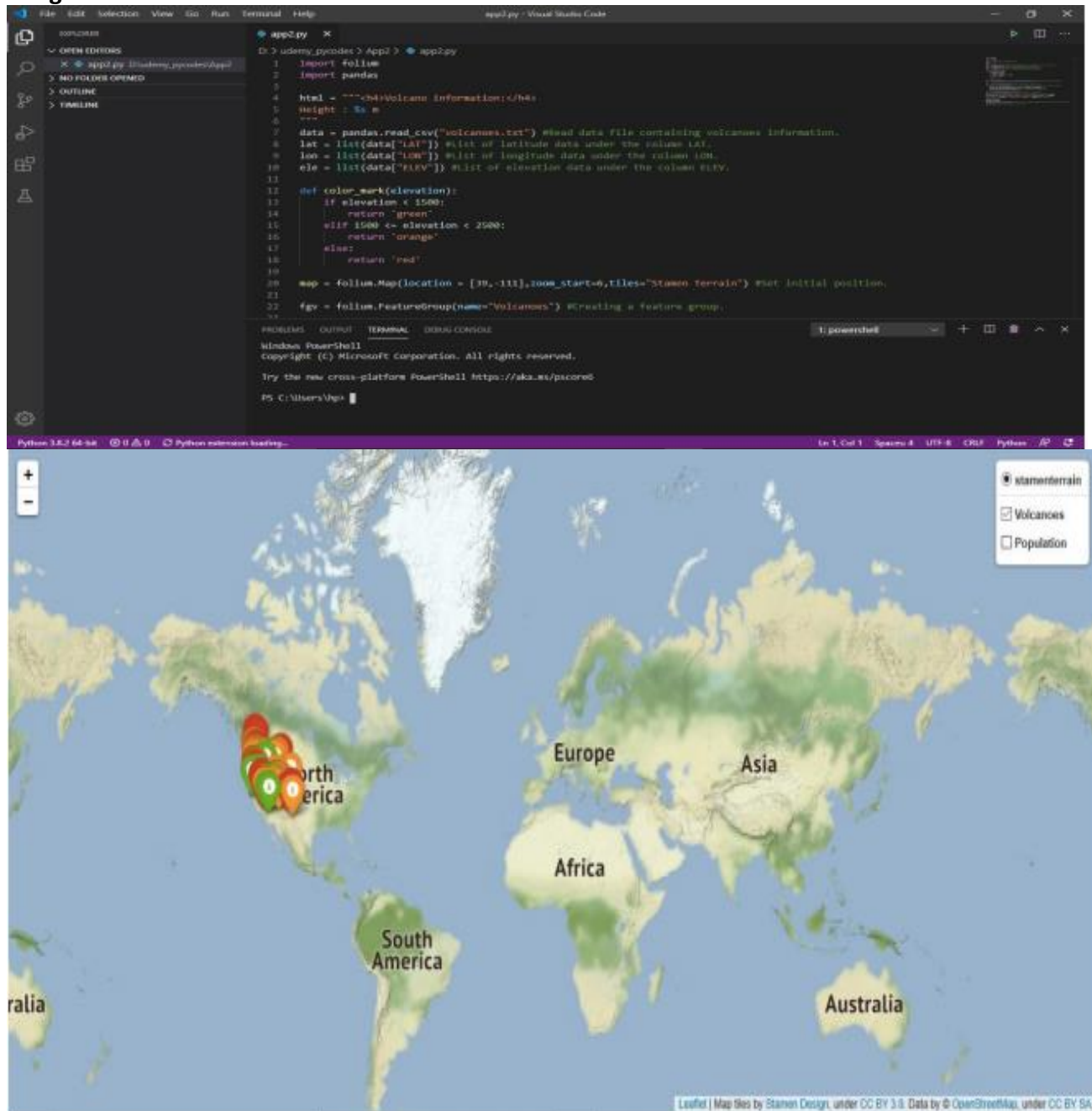


## DAILY ASSESSMENT FORMAT

Date:	23/5/2020	Name:	Kishan shetty
Course:	python	USN:	4a17ec041
Topic:	1.Fixing programming error 2.build a website blocker	Semester & Section:	6th A
Github Repository:	Kishanshetty-041		

### SESSION DETAILS

#### Image of the session



## Report

### Fixing Programming Errors

- Basically, there are two types of errors in python – Syntax and exceptional errors.
- Syntax errors can be found in the line mentioned by the terminal or in the previous lines in the code.
- To fix the difficult errors, the error details can be copied from the terminal and paste it on the google search bar to get the solutions (recommended website is stack overflow).

### Application 3: Build a Website Blocker

- The computer file ‘hosts’ is an operating system file that maps hostnames to IP addresses. It is a plain text file.
- In Windows 7/8/10, your hosts file is located at: C:\Windows\System32\drivers\etc\hosts.
- On Linux, you can find the hosts file under /etc/hosts location.
- Current date and time can be obtained from datetime.now () function which is present under time module.
- Lists of websites to be blocked should be stored in a variable in a list format.
- Working hours (websites are blocked) are set by the user, while comparing it with the current time for every fixed time interval.
- To read the host file file.read () function is used and stored in a variable.
- The IP address to be redirected in working hours is also stored in a variable.
- To perform write operation on host file file.write () function is used.
- The term ‘r+’ mode allows to perform read and write operation on file.
- Sleep (x) function under time module is used to check condition for every ‘x’ interval.
- To delete the website list in host file after the working hours complete, can be done using file.readlines (), file.seek (0) and file.truncate () functions.
- Python any () function accepts iterable (list, tuple, dictionary etc.) as an argument and return true if any of the element in iterable is true, else it returns false. If iterable is empty then any () method returns false.
- To run python file in the background it must be saved in file.pyw format and also should be executed as an administrator (High priority).
- With the help of Task scheduler, the program can be successfully executed in the background.

### Python code challenge

**Q.** Write python code to verify user\_name = "Micheal" and password = "e3\$WT89x". The total number of attempts are 03. For every wrong user\_name and password Print - Invalid username or Password, upon three attempts fails print- Account locked. If inputs are correct Print - You have successfully login.

**Sol:**

```
attempts = 3
while attempts !=0: #Check until attempts become equal to zero.
    user_name = input("Enter the user name:")
    user_password = input("Enter the user password:")
    if user_name == 'Micheal' and user_password == 'e3$WT89x':
        print("You have successfully logged in!")
        flag = 1
        break
    else:
        attempts-=1 #Decrease number of attempts by 1.
        if attempts !=0:
            print("Invalid user name or password. Try again...")
        else:
            print("You have exceeded the number of attempts.")
            print("Account Locked!")
```