**Day 46: Python**

**Note: Please refre to the python notes**

* print("my name is {}, my user\_id is {}".format(name, user\_id))
* dot format method

print(f"my name is {name}, my user\_id is {user\_id}")

* format

**Day 47: Python**

pip is the package installer for Python. You can use pip to install packages from the Python Package Index and other indexes.

**Have u written any Automation Script?**

* Yes,
  + In a production environment, monitoring server health is critical. I built an automation shell script to continuously check system metrics and send alerts if resource usage reaches threshold value
  + To monitor the services, if any of the services stopped script will send mail notification to concerned person and it will restart the services.
  + Also written cleanup script which will cleanup old builds and retain recent n builds.

**Python:**

* + To fetch all license file (file which starts with license) and notice files (file which starts with notice) and append all content of license and notice file along with path of each to a single file with name License\_Notice.txt.
  + Cloud costs can increase due to unused resources like stopped ec2 instances, unattached ebs volumes etc. I build an aws cleanup script that detects unused resources and send alert to concerned person if it detects unused resources.
  + written a python script to collect Jenkins job logs of each build from the path /var/lib/Jenkins/jobs/job\_name/build/build\_numer/log\_file and uploaded this log files to s3 bucket.

**which are the modules u worked on python?**

* Below are the modules which i worked
  + os module which is used to traverse directory upto nth level, searching for specific file like text file, notice or license file
  + subprocess module which is used to run Linux command using function subprocess.run()
  + boto3 module used to interact with aws to list unused resources, to upload files
  + pandas module used for data analysis
  + logging module used to print the output in specified format
  + re module to search specific pattern from the input data example to check whether log file contain error

**Ansible script:**

* + ansible script to restart the Jenkins server and also to bring up Jenkins if it goes down.
  + written roles to configure tomcat
  + also written to install and configure Grafana and prmoetheus.