1. Search for the occurrences of "foo" and "welcome" in a directory AND print the surrounding lines i.e., print n lines before and after the match and APPEND it in a new file. Please ensure no errors are logged into the new file.

**cat /path\_to\_directory/\* | egrep -w "foo|welcome" | wc -l >> /file\_name**

2. Find the number of cpu cores on a given Linux(rpm/debian based distro) machine without using any external package. Use native utilities only

1. **lscpu**
2. **cat /proc/cpuinfo**
3. **top**

These commands can be used to get the information of cpu cores on linux machine.

3. github url**- https://github.com/VaishnaviKhekale/microservice.git**

4. Can you print the PIDs of the zombie and their parent processes ? If yes, how ? If not, why?

Yes.

**For pid**

**ps -ef | grep defunct | awk '{ print $3 }'**

**For ppid**

**ps -ef | grep defunct | awk '{ print $4 }'**

5.Write a simple ansible/python script that tries to ssh to a machine (without password) and gets

1. the uptime of the machine 2. Number of hidden files in the home directory 3. Number of logged in users 4. Deletes everything under tmp and the list of deleted files

**#!/usr/bin/python3**

**import paramiko**

**ssh = paramiko.SSHClient()**

**ssh.set\_missing\_host\_key\_policy(paramiko.AutoAddPolicy())**

**ssh.connect(’10.0.0.1’, port=22, username='user', password='pass')**