**Q1) Write a shell script that checks if the Nginx process is running, and if not, starts the service .**

**Q2) Script to check CPU utilization and send an email alert(aws SNS topic) if it exceeds a threshold 80 percent.**

**Q)3 Write a shell script that checks the filesystem usage of the root directory (/) and sends an Amazon SNS notification if the usage exceeds 80%. The notification should include the current usage percentage and a warning message.**

**Q)4 write a shell script for below pattern**

**a)**

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**\*\*\*\*\***

**b)**

**1 2 3 4 5**

**1 2 3 4**

**1 2 3**

**1 2**

**1**

**c)**

**1**

**2 2**

**3 3 3**

**4 4 4 4**

**5 5 5 5 5**

**Q) 5 Write a shell script that lists all EC2 instance IDs,check their state and start them if they are in the “stopped” state.**

**Q) 6 write a shell script for backup all Ec2 volumes to snapshots.**

**Q) 7 write a shell script for backup all EC2 instance volumes excluding the root volumes.**

**Q) 8 shell script to create an AMI from a specified EC2 instance.**

**Q) 9 shell script that reads EC2 instance IDs from a text file, creates AMIs for each instance, adds tags to the AMIs, optionally waits for the AMIs to become available, and fetches the AMI ID associated with each EC2 instance.**

**Q10) shell script to delete all IAM roles containing name with ta-dev-\***

**Q11) shell script for user\_data script for configuring nginx using html and css.**

**Q12) shell script to Launch EC2 Instance with Amazon Linux 2023 , Install Software(Installation of AWS CLI, jq, Ansible, Docker, and Nginx), and Create AMI.**

**Q13) shell script for Cleaning Up Old Log Files which is old than 10 days**

**Q) 14 shell script that lists all EC2 instances, prepares a report csv file with timestamp with the fields Instance ID, State, System Status, and Instance Status, and uploads report to S3, and sends an SNS notification with a pre-signed URL if any instance has a system or instance status that requires action.**

**Q) 15 Create an EC2 snapshot, backup EBS volumes, and clean up old snapshots.**

**Q16) To fetch the state and private IP address for each EC2 instance in multiple AWS regions . Hint (use array to store multiple regions)**