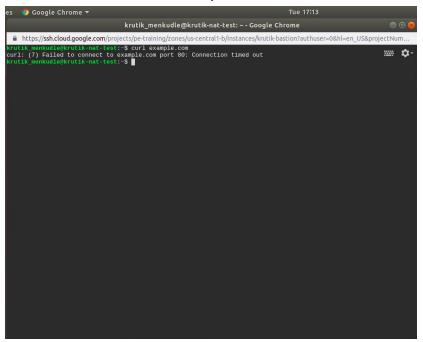
Question 1

- Create a VPC network and a subnet from console,
 - Click Create VPC network.
 - Enter a Name of krutik-network1
 - Under Subnets, set Subnet creation mode to Custom.
 - Enter a Name of krutik-sub-us-central
 - Select a Region of us-central1
 - o Enter an IP address range of 192.168.1.0/24
 - Click Done
 - Click Create
- Create a bastion host for testing
 - Navigate to VM instance and create an instance
 - Specify a Name of krutik-bastion for your instance
 - Set the Region to us-central1
 - Set the Zone to us-central1-b
 - Click the Management, security, disks, networking, sole tenancy link
 - Click the Networking tab
 - Under Network interfaces, click VM's default interface
 - Set the Network to krutik-network1
 - Set the Subnetwork to krutik-us-central
 - Click Done.
 - Click the Create button to create and start the instance.
- Create a VM instance with no external IP
 - Navigate to Create button.
 - Specify a Name of krutik-nat-test for your instance.
 - Set the Region to us-central1.
 - Set the Zone to us-central1-c.
 - Click the Management, security, disks, networking, sole tenancy link.
 - Click the Networking tab.
 - o Under Network interfaces, click the pencil icon for the VM's default interface.
 - Set the Network to krutik-network1.
 - Set the Subnetwork to krutik-sub-us-central.
 - Set External IP to None.
 - Click Done.
 - Click the Create button to create and start the instance.
- Create firewall rule that allows connection
 - Navigate to Create firewall rule
 - Enter a Name of krutik-allow-ssh.
 - Specify a Network of krutik-network1.

- Set Direction of traffic to ingress.
- Set Action on match to allow.
- Set Targets to All instances in the network.
- Set Source filter to IP ranges.
- Set Source IP ranges to 0.0.0.0/0.
- Set Protocols and ports to Specified protocols and ports.
- Select tcp and specify port 22
- Click Create
- Give a network tag in krutik-bastion instance and allow secondary tag in krutik-network1 and enter the same network tag
- Login to krutik-nat-test to see we can reach internet
 - Connect krutik-bastion via ssh.
 - From krutik-bastion, connect to nat-test-1:
 - ssh krutik-nat-test -A
 - From krutik-nat-test, attempt to connect to the Internet:
 - curl example.com



- Create a NAT configuration using cloud router
 - Click Get started or Create NAT gateway.
 - Enter a Gateway name of krutik-nat-config
 - Set the VPC network to krutik-network1
 - Set the Region to us-central1
 - Under Cloud Router, select Create new router
 - Enter a Name of krutik-nat-router

- Click Create
- Click Create

• Attempt to connect to the internet again from krutik-nat-test