**LAB 1**

**CLOUD IAM**

To create a vm instance with the zone and region and other parameter

gcloud beta compute --project=qwiklabs-gcp-02-d3e66124504e instances create instance-1 --zone=us-central1-a --machine-type=e2-medium --subnet=default --network-tier=PREMIUM --maintenance-policy=MIGRATE --service-account=57715367410-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read\_only,https://www.googleapis.com/auth/logging.write,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.com/auth/servicecontrol,https://www.googleapis.com/auth/service.management.readonly,https://www.googleapis.com/auth/trace.append --image=debian-10-buster-v20200910 --image-project=debian-cloud --boot-disk-size=10GB --boot-disk-type=pd-standard --boot-disk-device-name=instance-1 --no-shielded-secure-boot --no-shielded-vtpm --no-shielded-integrity-monitoring --reservation-affinity=any

To copy from a Storage Bucket to another directory

gsutil cp gs://[YOUR\_BUCKET\_NAME]/sample.txt .

To Copy a file and rename the file in a new destination

mv sample.txt sample2.txt

To check all VMs currenctly in project

gcloud compute instances list

**LAB 2**

**Working with Virtual Machines**

To create a directory

sudo mkdir -p /home/Minecraft

Formatting a disk

sudo mkfs.ext4 -F -E lazy\_itable\_init=0,\ lazy\_journal\_init=0,discard \ /dev/disk/by-id/google-minecraft-disk

Mounting a disk

sudo mount -o discard,defaults /dev/disk/by-id/google-minecraft-disk /home/minecraft

To install java runtime environment

sudo apt-get install -y default-jre-headless

To initialize application server

sudo java -Xmx1024M -Xms1024M -jar server.jar nogui