# Graded Assignment on Networking and Servers

# Q-1. Deploy a website on localhost using either apache2 or Nginx. Create a DNS name for this website as ‘awesomeweb’. You can use any web template you want or can write your own simple HTML code.

# Steps:

# Login to your ubuntu box 24.04LTS.

# Run a sudo apt-get install update command.

# Run sudo apt-get install nginx to install nginx in the ubuntu machine

# Check the status of the nginx service – sudo service status nginx

# Verify if the service is active, if not, then enter the command – sudo service nginx start

# Check the present working directory – pwd

# Go to /home/ubuntu\_ad and create a folder awesomeweb\_app

# mkdir awesomeweb\_app

# Go to the newly created folder:

# cd awesomeweb\_app

# Create a new html file – touch awesomeweb.html

# Enter the code for the new html file and save the file– nano awesomeweb.html

# Go to nginx configuration to deploy the website –

# Copy the awesomeweb.html to /var/www/html folder

# Go to your browser and run the local host website. The html page you created shall open at default port 80.

# Q-3:

# Steps:

# Install VirtualBox

# Create the “VirtualBox Users” group as it didn’t exist.

# net localgroup "VirtualBox Users" /add

# Add user account – “abhas” to the VirtualBox Users group

# net localgroup "VirtualBox Users" abhas /add

# Launch VirtualBox

# Download a .iso image for Ubuntu 22.04

# Set the Ubuntu Virtual Machine by clicking on New.

# Select the .iso image and name of the virtual machine.

# 

# Update the hardware of your machine – 4GB RAM and 2CPU.

# 

# Configure the virtual Hard disk size – 101.71GB.

# 

# Click on Next 🡪 Finish and your machine will start to install.

# 

# Once installation is completed, the machine will be ready to use.

# 

# 

# Run sudo apt-get update

# Install nginx and check the status of nginx service

# sudo apt-get install nginx

# sudo systemctl status nginx

# 

# 

# To deploy a website via Nginx, follow the below steps:

# Create a awesomeweb.html file.

# Copy the file to /var/www/html/

# sudo cp awesomeweb.html /var/www/html/

# Modify the nginx server configuration:

# sudo nano /etc/nginx/sites-available/default

# Make below changes:

# Now launch the website in your browser using <http://localhost>

# 

# Install Nmap

# sudo apt-get install nmap