Assignment – 3

1. Get me the IP address of a particular domain (guvi.in). How do I find my CPU/memory usage of my server? Test the connectivity between 2 nodes?

-> Getting IP Address of guvi.in

```
pranit@LAPTOP-I9TPEN7J:~$ nslookup guvi.in
Server:         10.255.255.254
Address:        10.255.255.254#53

Non-authoritative answer:
Name:   guvi.in
Address: 104.26.5.88
Name:   guvi.in
Address: 172.67.70.207
Name:   guvi.in
Address: 104.26.4.88
Name:   guvi.in
Address: 2606:4700:8d7a:d255:c1a5:cfb:60b8:c78e
```

Server: DNS Server used for lookup

Address: IP Address for guvi.in

Name: Domain Name

-> Finding CPU/memory usage

```
pranit@LAPTOP-I9TPEN7J:~$ free -h
              total        used        free      shared  buff/cache   available
Mem:          7.7Gi       595Mi       6.8Gi       3.1Mi       503Mi       7.1Gi
Swap:         2.0Gi          0B       2.0Gi
```

used: memory used by programs

available: how much of a RAM is still usable by programs

Swap: disk space used by backup memory

-> Testing connectivity between two nodes

```
pranit@LAPTOP-I9TPEN7J:~$ ping -c 4 guvi.in
PING guvi.in (104.26.5.88) 56(84) bytes of data.
64 bytes from 104.26.5.88: icmp_seq=1 ttl=53 time=51.8 ms
64 bytes from 104.26.5.88: icmp_seq=2 ttl=53 time=56.5 ms
64 bytes from 104.26.5.88: icmp_seq=3 ttl=53 time=52.6 ms
64 bytes from 104.26.5.88: icmp_seq=4 ttl=53 time=43.5 ms

--- guvi.in ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2998ms
rtt min/avg/max/mdev = 43.538/51.100/56.469/4.710 ms
```

This confirms that first node is reachable with 51.8ms latency.

---

2. I have deployed an application in guvi.com:9000, and logs show my app is running, but I'm unable to view the page. Check whether my port is open or not?

-> Checking if guvi.com port:9000 is open or not using telnet

```
pranit@LAPTOP-I9TPEN7J:~$ telnet guvi.com 9000
Trying 104.21.79.166...
Connection failed: Connection timed out
Trying 172.67.146.154...
Connection failed: Connection timed out
Trying 2606:4700:3031::6815:4fa6...
Connection failed: Network is unreachable
Trying 2606:4700:3037::ac43:929a...
telnet: Unable to connect to remote host: Network is unreachable
```

Connection refused or timeout = Failure.