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**Subject** : Computer Networks (CN)

**Experiment 2**

**Aim : Use Basic networking in linux (ping,traceroute, nslookup, netstat , ARP, RAP , ip,iconfig ,dig, route)**

**Theory :**

**Every computer is connected to some other computer through a network or externally to exchange some information . This network can be as small as some computer connected in your home or office , or can be large or complicated as large university or the entire internet .**

**Application :**

**1.ping :To check connectvity between two nodes.**

aiktc@CO-LAB1-04:~$ ping www.aiktc.ac.in

PING aiktc.ac.in (43.225.55.142) 56(84) bytes of data.

64 bytes from md-in-13.webhostbox.net (43.225.55.142): icmp\_seq=1 ttl=60 time=3.26 ms

64 bytes from md-in-13.webhostbox.net (43.225.55.142): icmp\_seq=2 ttl=60 time=3.24 ms

64 bytes from md-in-13.webhostbox.net (43.225.55.142): icmp\_seq=3 ttl=60 time=3.31 ms

64 bytes from md-in-13.webhostbox.net (43.225.55.142): icmp\_seq=4 ttl=60 time=3.14 ms

64 bytes from md-in-13.webhostbox.net (43.225.55.142): icmp\_seq=5 ttl=60 time=3.33 ms

**2.traceroute : Network troubleshooting utility.**

**aiktc@CO-LAB1-04:~$ traceroute www.aiktc.ac.in**

**traceroute to www.aiktc.ac.in (43.225.55.142), 30 hops max, 60 byte packets**

**1\_gateway (172.16.16.1) 0.267 ms 0.194 ms 0.150 ms**

**2 18.18.200.173 (18.18.200.173) 2.876 ms 2.597 ms 2.908 ms**

**3 103.39.246.14.softcall.net.in (103.39.246.14) 2.371 ms 1.671 ms 1.774 ms**

**4 103.39.246.13.softcall.net.in (103.39.246.13) 13.286 ms 12.813 ms 12.774 ms**

**5 nsg-static-173.107.75.182-airtel.com (182.75.107.173) 4.341 ms 4.304 ms 4.268 ms**

**6 182.79.141.114 (182.79.141.114) 4.592 ms 182.79.240.2 (182.79.240.2) 4.910 ms 4.436 ms**

**7 125.19.200.162 (125.19.200.162) 64.369 ms 78.838 ms 78.480 ms**

**8 \* \* \***

**9 md-in-13.webhostbox.net (43.225.55.142) 4.127 ms 5.618 ms 5.553 ms**

**3.nslookup : Find DNS related query.**

**aiktc@CO-LAB1-04:~$ nslookup www.aiktc.ac.in**

**Server: 127.0.0.53**

**Address: 127.0.0.53#53**

**Non-authoritative answer:**

**www.aiktc.ac.in canonical name = aiktc.ac.in.**

**Name: aiktc.ac.in**

**Address: 43.225.55.142**