# ASSIGNMENT

| COURSE | Networking Fundamentals | ASSIGNMENT NO | 1 |
|--------|-------------------------|---------------|---|
| MODULE | 1 | ASSIGNMENT DATE | 19/08/2024 |
| STUDENT NAME | KONGANTI CHAITHANYA KUMAR | SUBMISSION DATE | 19/08/2024 |

Q1. Write 15 common ports, TCP/UDP class and protocols associated with them. Briefly explain function of each protocol.

Ans:

| SNO | PORT No | TCP/UDP | PROTOCOLS | EXPLAINATION |
|-----|---------|---------|-----------|--------------|
| 1 | 7 | TCP/UDP | Echo | Used to test and measure round-trip times in networks; sends back whatever data it receives. |
| 2 | 22 | TCP | SSH | Secure Shell used for secure login, file transfers (SCP, SFTP), and port forwarding. |
| 3 | 23 | TCP | TELNET | Unencrypted text communications protocol, used for remote login. |
| 4 | 80 | TCP | HTTP | HyperText Transfer Protocol, used for unencrypted web traffic. |
| 5 | 53 | TCP/UDP | DNS | Domain Name System, used to resolve hostnames to IP addresses. |
| 6 | 25 | TCP | SMTP | Simple Mail Transfer Protocol, used to send emails. |
| 7 | 20/21 | TCP | FTP | File Transfer Protocol, used for transferring files between systems. |
| 8 | 69 | UDP | TFTP | Trivial File Transfer Protocol, simpler than FTP and often used for bootstrapping devices. |

| 9 | 443 | TCP | HTTPS | HTTP Secure, used for encrypted web traffic. |
|---|---|---|---|---|
| 10 | 110 | TCP | POP3 | Post Office Protocol 3, used by email clients to retrieve emails from a server. |
| 11 | 67/68 | UDP | DHCP | Dynamic Host Configuration Protocol, used to automatically assign IP addresses to devices. |
| 12 | 3306 | TCP | MySQL | Default port for the MySQL database system. |
| 13 | 1433 | TCP | MS-SQL | Microsoft SQL Server protocol for database connections. |
| 14 | 27017 | TCP | MongoDB | Default port for the MongoDB NoSQL database system. |
| 15 | 5432 | TCP | PostgreSQL | Default port for PostgreSQL, an open-source relational database. |

Q2. Install Cisco Packet Tracer and get familiarize with the tool.

Ans: Completed Installation