## Programmable Data Plane Using P4 Language

GitHub link for our project is below.

https://github.com/ganeshkurapati/Programmable-Data-Plane-using-P4-Language

The project implementation was team effort with everyone in the team putting in their efforts. A summary of contributions is given below.

## 1. Contributions of Naga Ganesh

- Contributed towards literature study of P4 language.
- Parser logic implementation.
- Implemented identification of video streams from a streaming server.
- Installation of Mist server and perform video streaming to VLC video player.
- Match action table to identify and filter streaming packets.
- Contributed towards documentation and project report.

## 2. Contributions of Ramanand Shankarling

- Contributed towards literature study of P4 language.
- Linux environment set up with Mininet, installation of P4 compiler and other tools.
- Implemented identification of OpenSSL flows.
- Captured packets for SSL connection between sample SSL client and SSL server.
  Modify using Tcprewrite and replay with Scapy.
- Match action table to identify and filter SSL packets.
- Contributed towards documentation and project report.

## 3. Contributions of Rakesh Musalay

- Contributed towards literature study of P4 language.
- Counter logic.
- Implemented identification of Youtube streams.
- Capturing of QUIC protocol streams using Wireshark and replay with Scapy.
- Match action table to identify and filter Youtube QUIC packets.
- Contributed towards documentation and project report.