Experiment – 5

**Aim:** Establishment of switched Ethernet LAN.

**Software Used:** Cisco Packet Tracer

**Theory:**

Switched Ethernet networks have options that allow switches to have ports of varying line rates. There is also an option to build up high-capacity links by aggregating multiple parallel links into a single logical link. This is Ethernet's link aggregation control protocol (LACP). It organizes multiple parallel links between two switches into a link aggregation group (LAG), which then operates as a single link. Here, traffic is split at the ingress of the aggregate link, packet by packet, to be routed on the constituent links, and then reassembled in order at the egress of the aggregate link. It is a simple method to increase the capacity of links using existing lower speed links.

**Procedure:** connected a router and three end devices to a switch.

Configure the router, switch, and end devices.

**Output:**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text

Description automatically generated

