

# OSPF (Open shortest path first)

OSPF is a intradomain routing protocol that works on principle of link state routing.

## \* OSPF links

there are following 4 types of links

① Point - to - Point

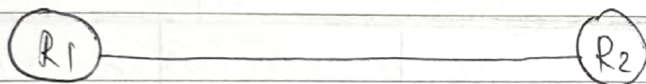
② Transient

③ virtual

④ stub

### ① Point to Point

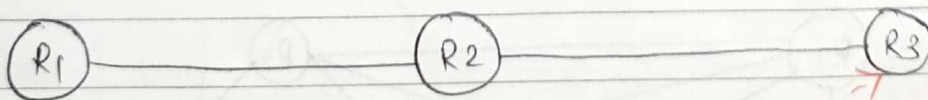
- when 2 routers are directly connected to each other it is known as point to point



Point to point

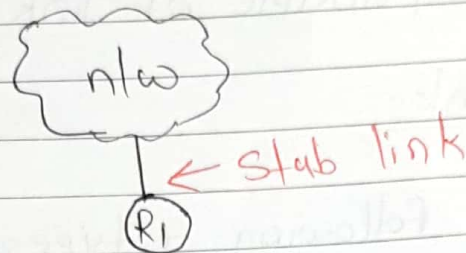
### ② virtual link

- when 2 routers are not directly connected to each other but connected via some other router, such link is known as virtual link

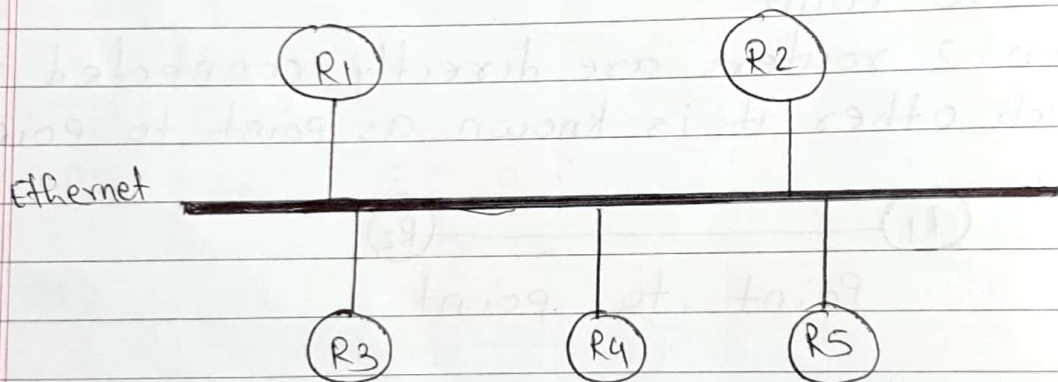


virtual link

- ③ stub  
when there is single link connecting to a particular network is known as stub link

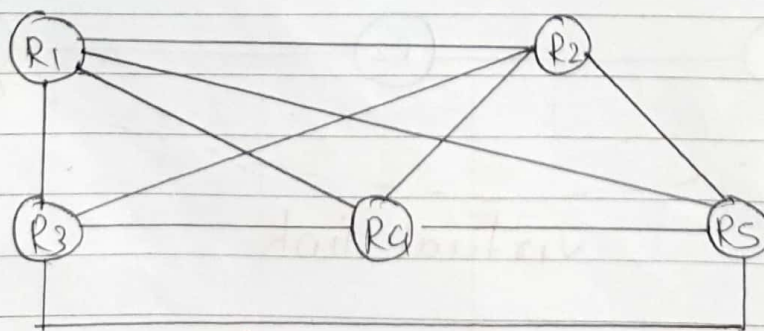


- ④ Transient
- when a router is connected to all other routers in a network, it is known as transient link
  - for e.g

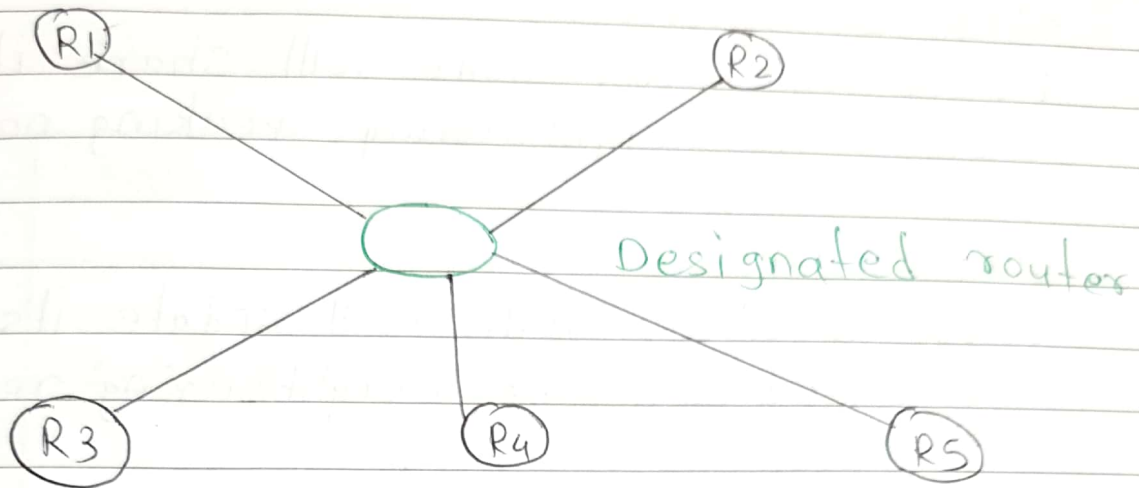


### Transient network

The transient link can also be expressed with the help of unrealistic as well as realistic representation



unrealistic representation



Realistic representation