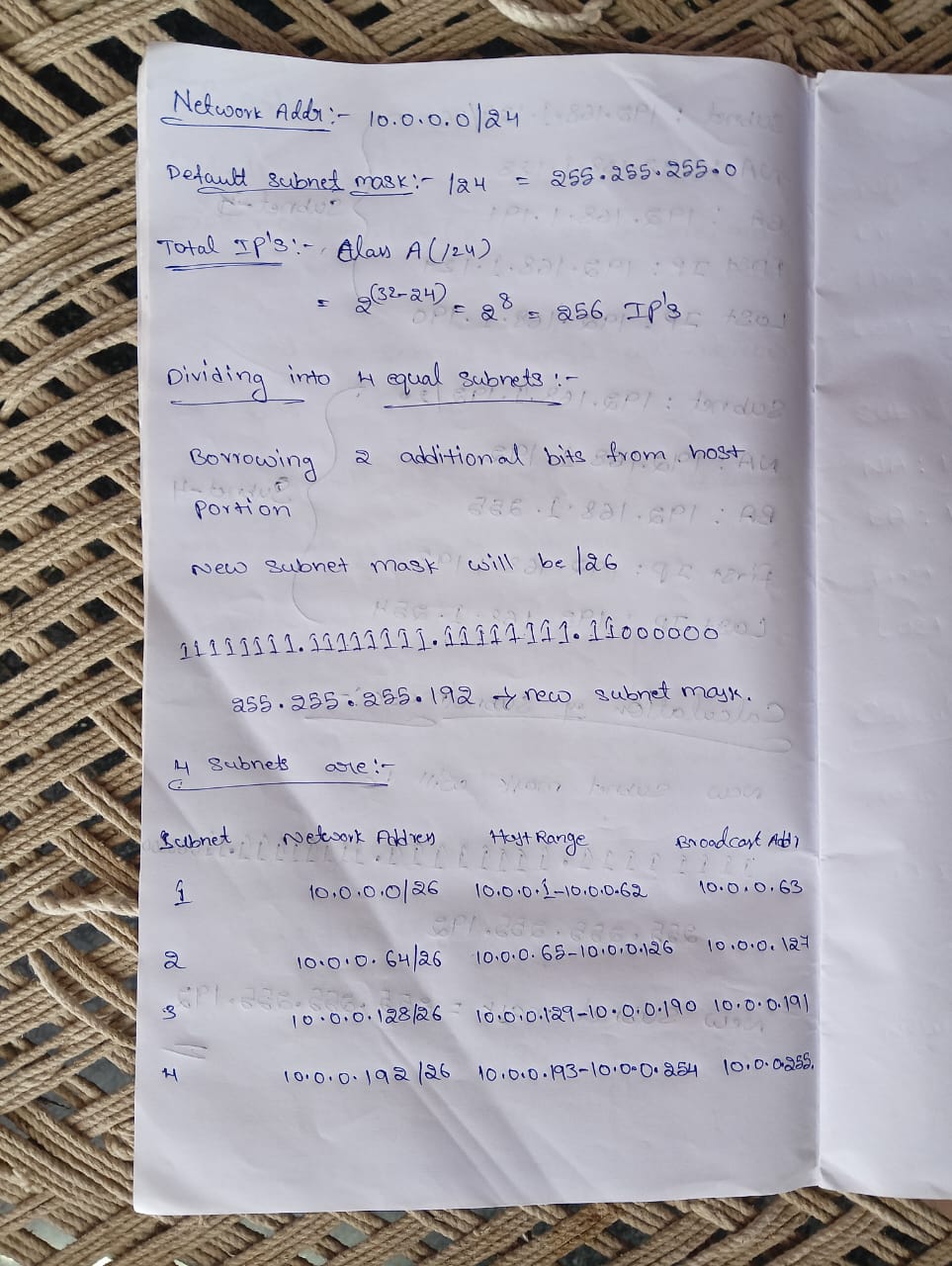
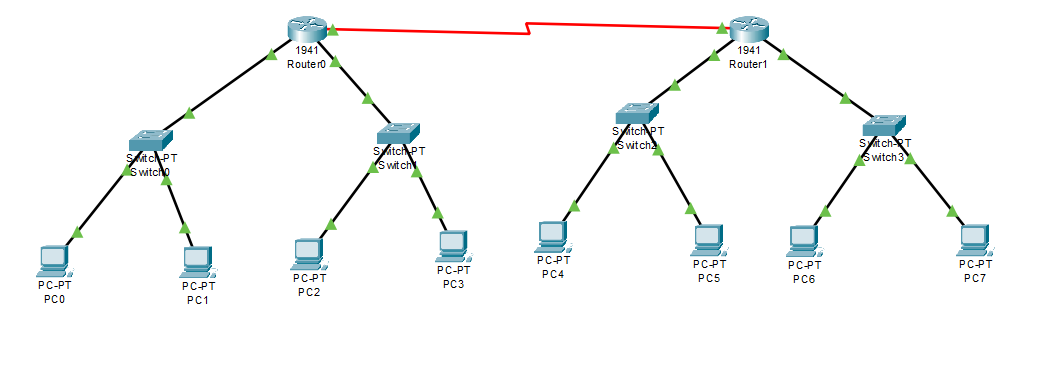
3 . Given a network address of 10.0.0.0/24, divide it into 4 equal subnets. Calculate the new subnet mask. Determine the valid host range for each subnet. Assign IP addresses to devices in Packet Tracer and verify connectivity

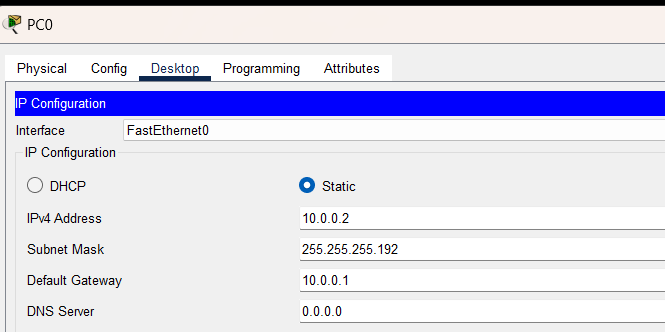
**Manual calculation of subnets and subnet mask :**

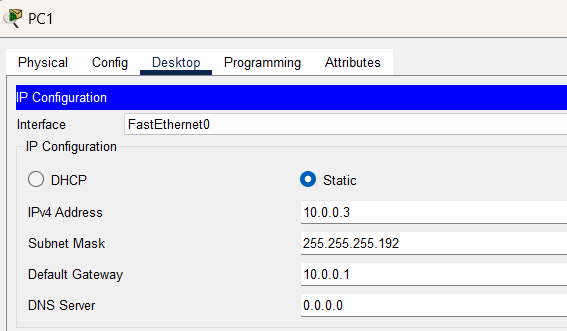


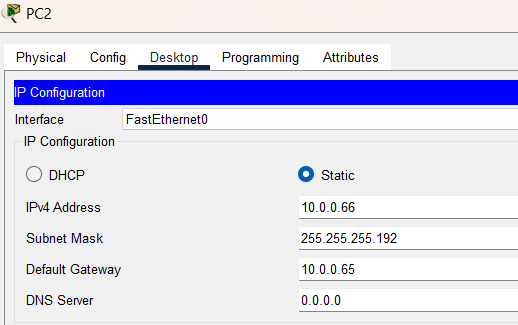
Network Topology :

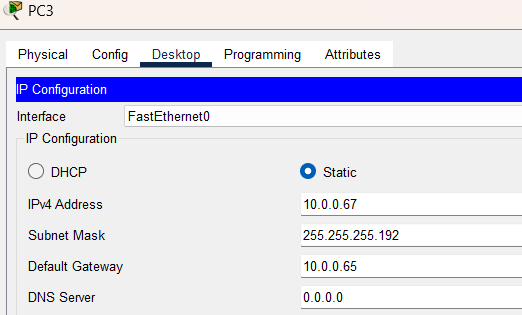


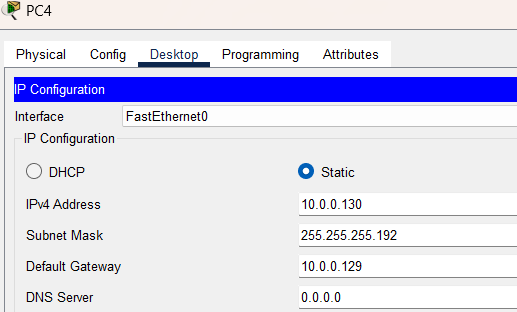
IP Configuration of PC and ROUTERS :

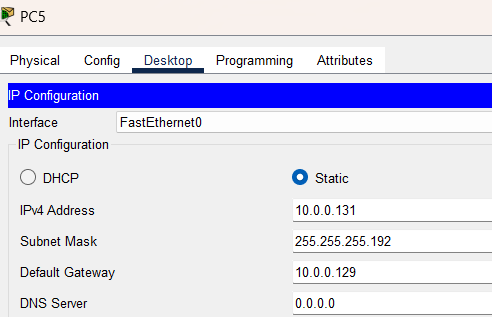


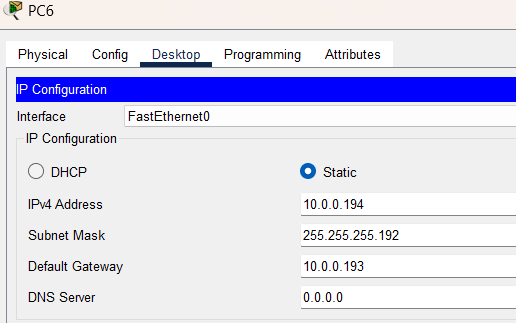


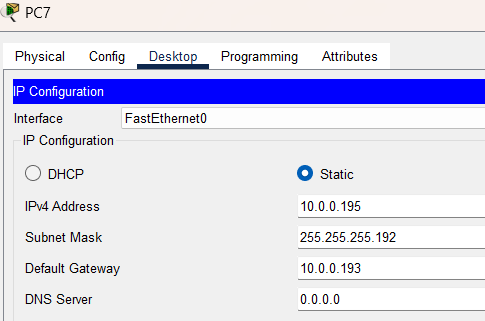




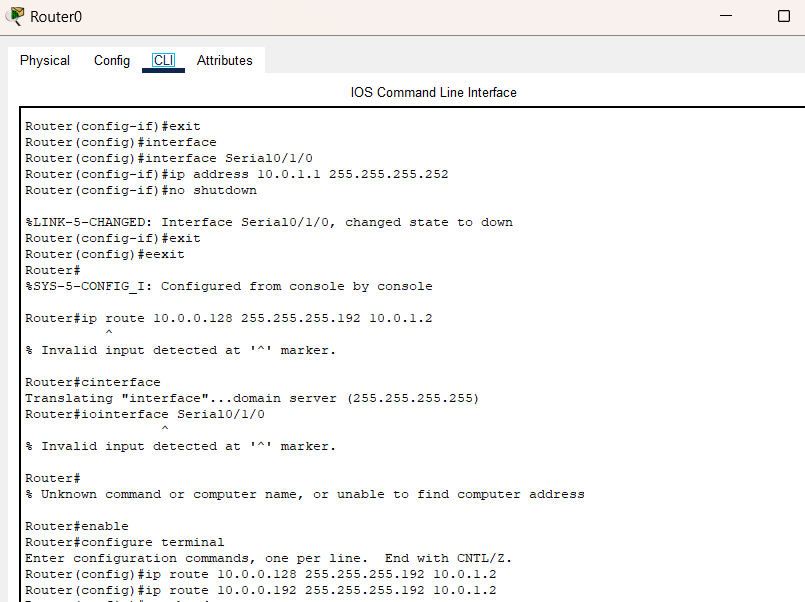


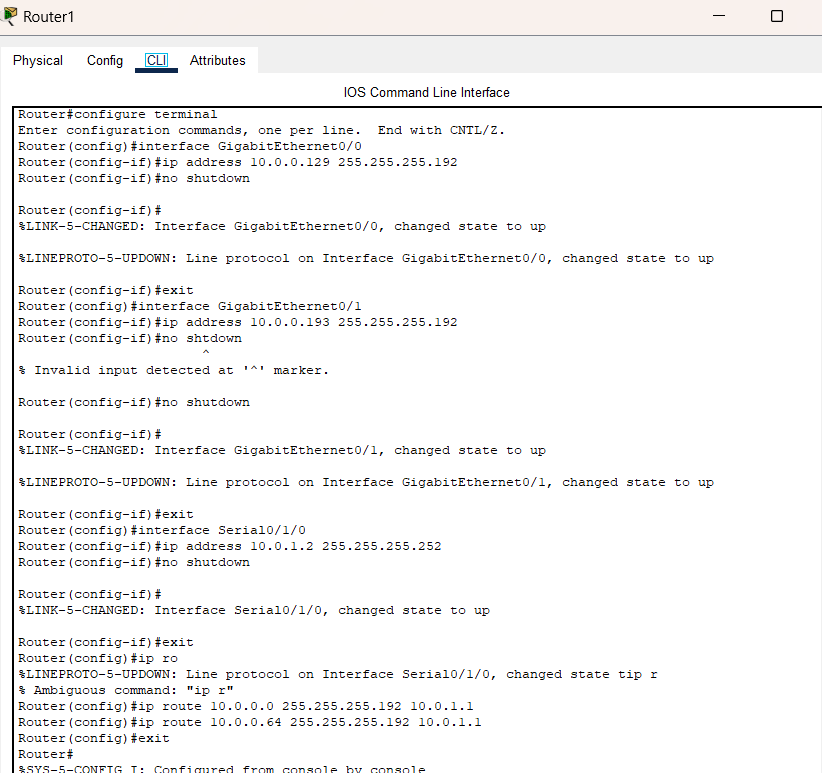






Configuration of routers :





Using ping and traceroute from pc0 to pc5 and pc5 to pc0

