Q3) 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.

Subnet Ranges:

Subnet No.	Network Address	First Host	Last Host	Broadcast Address
1	10.0.0.0/26	10.0.0.1	10.0.0.62	10.0.0.63
2	10.0.0.64/26	10.0.0.65	10.0.0.126	10.0.0.127
3	10.0.0.128/26	10.0.0.129	10.0.0.190	10.0.0.191
4	10.0.0.192/26	10.0.0.193	10.0.0.254	10.0.0.255