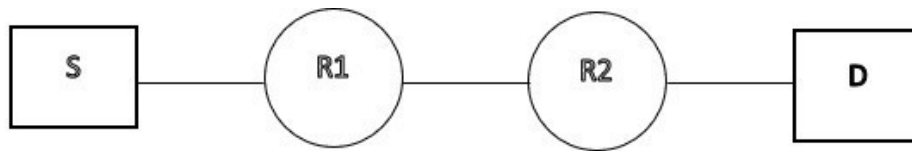


UIT2403 – Data Communication and Networking
UNIT III: NETWORK LAYER AND INTERNETWORKING

Tutorial – I
Network Layer and IP Addressing

Date: 09.05.2024

1. Assume that source **S** and destination **D** are connected through two intermediate routers labelled **R1** and **R2** respectively. Determine how many times each packet has to visit the network layer and the data link layer during a transmission from S to D.



2. In an organization, given network 173.31.0.0, with subnet mask 255.255.255.0 find the following.
 - (i) Total number of subnets
 - (ii) Range of subnet addresses.
 - (iii) Number of hosts per subnet
