PRANAV JAGADEESH 1BM18CS071 PROGRAM-5

DHCP has 4 stages, Discover, Offer, Request, Acknowledgement (DORA)

Take 4 PC's (PC0, PC1, PC2, PC3), one router - PT and switch - 2960 and connected and topology is formed.

The router is configured i.e only one interface

The ip address 10.0.0.1 is given/assigned to router.

Select server, gives default gateway 10.0.0.1

In Fastethernet 0, ipv4 address 10.0.0.2

so subnet mask is 255.0.0.0

Click on services, select DHCP, put service on,

default gateway 10.0.0.1, DNS server 10.0.0.2

start ip address 10 0 0 0

Subnet mask 255 0 0 0

max users : 512

TFTP server 10.0.0.2, then save.

Click - PC0, Desktop, ip configuration, select DHCP,

ip address is automatically assigned (dynamic).

This steps repeated for PC1, PC2, PC3

Perform ping operation to send messages across different PC's using ping command

Outcomes :-

(i) DHCP protocol helps to assign ip address dynamically.

(ii) DHCP has 4 stages, Discover, Offer, Request & acknowledgement

discover devices, waits for request from client,

client receives offers from different servers.

acknowledgement will be sent by reader.