TASK 3

**1 =>** Configure **R2** to exclude the first 10 addresses from the R1 and R3 LANs. All other addresses should be available in the DHCP address pool.

**Ans =>**

R2 -> CLI -> enable -> conf t -> ip dhcp ex (tab)? -> ip dhcp excluded-address 192.168.10.1 192.168.10.10 ->

ip dhcp excluded-address 192.168.30.1 192.168.30.10

**2 =>** Create a DHCP pool on R2 for the R1 LAN.

**Ans =>**

R2 ->ip dhcp pool R1-LAN -> network ? -> network 192.168.10.0 ? -> network 192.168.10.0 255.255.255.0 -> default-router 192.168.10.1 -> dns-server 192.168.20.254 -> exit

R2(config)# ->ip dhcp pool R3-LAN -> network 192.168.30.0 255.255.0 ->default-router 192.168.30.1 ->dns-server 192.168.20.254

**Configure DHCP Relay**

**1 =>** Configure R1 and R3 as a DHCP relay agent

**Ans =>**

R1 -> enable -> conf t -> interface gigabitEthernet 0/0 -> ip helper-address 10.1.1.2

R3 -> enable -> conf t -> interface gigabitEthernet 0/0 -> ip helper-address 10.2.2.2

**2 =>** Set PC1 and PC2 to receive IP addressing information from DHCP

**Ans =>**

**Part 3: Configure R2 as a DHCP Client**

**1 =>**

Configure the Gigabit Ethernet 0/1 interface on R2 to receive IP addressing from DHCP and activate the interface

Use the **show ip interface brief** command to verify that R2 received an IP address from DHCP

**Ans =>**

R2 -> CLI -> enable -> conf t ->interface gigabitEthernet 0/1 -> ip address dhcp -> no shutdown

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