**PART-1: Configuring Router-2 as a DHCP Server  
Router-2:**R2> en  
R2# conf t  
R2(config)# ip dhcp excluded-address 192.168.10.1 192.168.10.10  
R2(config)# ip dhcp excluded-address 192.168.30.1 192.168.30.10  
R2(config)# ip dhcp pool R1-LAN  
R2(dhcp-config)# network 192.168.10.0 255.255.255.0  
R2(dhcp-config)# default-router 192.168.10.1  
R2(dhcp-config)# dns-server 192.168.20.254  
R2(dhcp-config)# exit  
R2(config)# ip dhcp pool R3-LAN  
R2(dhcp-config)# network 192.168.30.0 255.255.255.0  
R2(dhcp-config)# default-router 192.168.30.1  
R2(dhcp-config)# dns-server 192.168.20.254

**PART-2: Configuring DHCP Relay  
Router-1:**R1> en  
R1# conf t  
R1(config)# interface g0/0  
R1(config-if)# ip helper-address 10.1.1.2

**Router-3:**R3> en  
R3# conf t  
R3(config)# interface g0/0  
R3(config-if)# ip helper-address 10.2.2.2

**PC1:**PC1 -> Desktop -> IP Configuration -> Static to DHCP

**PC2:**PC2 -> Desktop -> IP Configuration -> Static to DHCP

**PART-3: Configuring Router 2 as a DHCP Client  
Router-2:**R2> en  
R2# conf t  
R2(config)# interface g0/1  
R2(config-if)# ip address dhcp  
R2(config)# no shutdown

**PART-4: Verifying DHCP and Connectivity  
Step-1 Router-2:**R2> en  
R2# show ip dhcp binding  
  
**Step-2:**PC1 -> Command Prompt -> ping 192.168.30.11  
PC2 -> Command Prompt -> ping 192.168.10.11  
PC1 -> Command Prompt -> ping 209.165.202.158