

-----to enter into admin mode-----

prompt>enable

-----to enter into configuration mode-----

prompt# configure terminal

prompt(config)# hostname _____

-----to set password when connected to console 0-----

prompt(config)# line console 0

prompt(config-line)# password _____

prompt(config-line)# login

prompt(config-line)# exit

-----to set password when connected to telnet-----

prompt(config)# line vty 0 4

prompt(config-line)# password _____

prompt(config-line)# login

prompt(config-line)# exit

-----to set password when entering admin mode-----

prompt(config)# enable secret _____

-----to set banner-----

prompt(config)# banner motd " _____ "

-----to encrypt password-----

prompt(config)# service password-encryption

-----to save configuration-----

prompt# copy running-config startup-config

-----for erase startup-config-----

prompt# erase startup-config

-----to reboot the switch-----

prompt# reload

-----to configure VLAN 1-----

prompt(config)# interface vlan 1

prompt(config-if)# ip address 192.168.---.--- 255.255.255.0

prompt(config-if)# no shutdown

-----to configure other VLANs-----

prompt(config)# vlan 2 --- (vlan number)

prompt(config-vlan)# name _____ --- (vlan name)

-----to verify VLANs-----

prompt# show vlan brief

-----to configure ports in VLANs-----

prompt(config)# interface fastethernet 0/1 --- (port number)

prompt(config-if)# switchport mode access

prompt(config-if)# switchport access vlan 2 --- (vlan number)

-----to configure trunk port-----

prompt(config)# interface fastethernet 0/1 --- (port number)

prompt(config-if)# switchport mode trunk

prompt(config-if)# switchport trunk native vlan 1 --- (vlan number)

prompt(config-if)# switchport trunk allowed vlan 2,3,4 --- (vlan numbers)

-----to configure Router (extra)-----

prompt(config)# interface fastEthernet 0/0 --- (port number)

prompt(config-if)# description _____ --- (description)

prompt(config-if)# ip address 192.168.---.--- 255.255.255.0

prompt(config-if)# ipv6 address 2001:db8:0:1::1/64 --- (ipv6 address/prefix length)

prompt(config-if)# no shutdown

-----to verify interface status-----

prompt# show ip interface brief

-----inter VLAN routing-----

prompt(config)# interface gigabitethernet 0/0.2 --- (port number.vlan number)

prompt(config-subif)# encapsulation dot1Q 2 --- (vlan number)

prompt(config-subif)# ip address 192.168.---.--- 255.255.255.0 --- (ip address subnet mask)

prompt(config-subif)# exit

prompt(config)# interface gigabitethernet 0/0.3 --- (port number.vlan number)

prompt(config-subif)# encapsulation dot1Q 3 --- (vlan number)

prompt(config-subif)# ip address 192.168.---.--- 255.255.255.0 --- (ip address subnet mask)

prompt(config-subif)# exit

prompt(config)# interface gigabitethernet 0/0

prompt(config-if)# no shutdown --- (to enable the port)

-----static NAT-----

prompt(config)# ip nat inside source static 192.168.---.--- 192.168.---.--- (inside ip address outside ip address)

prompt(config)# interface fastethernet 0/0 --- (port number connected to the inside network)

prompt(config-if)# ip nat inside

prompt(config-if)# exit

prompt(config)# interface fastethernet 0/1 --- (port number)

prompt(config-if)# ip nat outside

prompt(config-if)# exit

-----dynamic NAT-----

prompt(config)# ip nat pool POOL1 192.168.---.--- 192.168.---.--- netmask 255.255.---.--- (start ip address end ip address subnet mask)

prompt(config)# access-list 1 permit 192.168.0.0.0.0.255.255 --- (ip address subnet mask)

prompt(config)# ip nat inside source list 1 pool POOL1 --- (access list number pool name)

prompt(config)# interface fastethernet 0/0 --- (port number connected to the inside network)

prompt(config-if)# ip nat inside

prompt(config)# interface fastethernet 0/1 --- (port number)

prompt(config-if)# ip nat outside

prompt(config-if)# exit

-----PAT-----

prompt(config)# ip nat pool POOL1 192.168.---.--- 192.168.---.--- netmask 255.255.---.--- (start ip address end ip address subnet mask)

prompt(config)# access-list 1 permit 192.168.0.0.0.0.255.255 --- (ip address subnet mask)

prompt(config)# ip nat inside source list 1 pool POOL1 overload --- (access list number pool name)

prompt(config)# interface fastethernet 0/0 --- (port number connected to the inside network)

prompt(config-if)# ip nat inside

prompt(config)# interface fastethernet 0/1 --- (port number)

prompt(config-if)# ip nat outside

prompt(config-if)# exit