

# SUPERIOR UNIVERSITY LAHORE

Bachelor in Computer Science

Department: Computer Science & Information Technology

Subject: Computer Network

## TASK: 10

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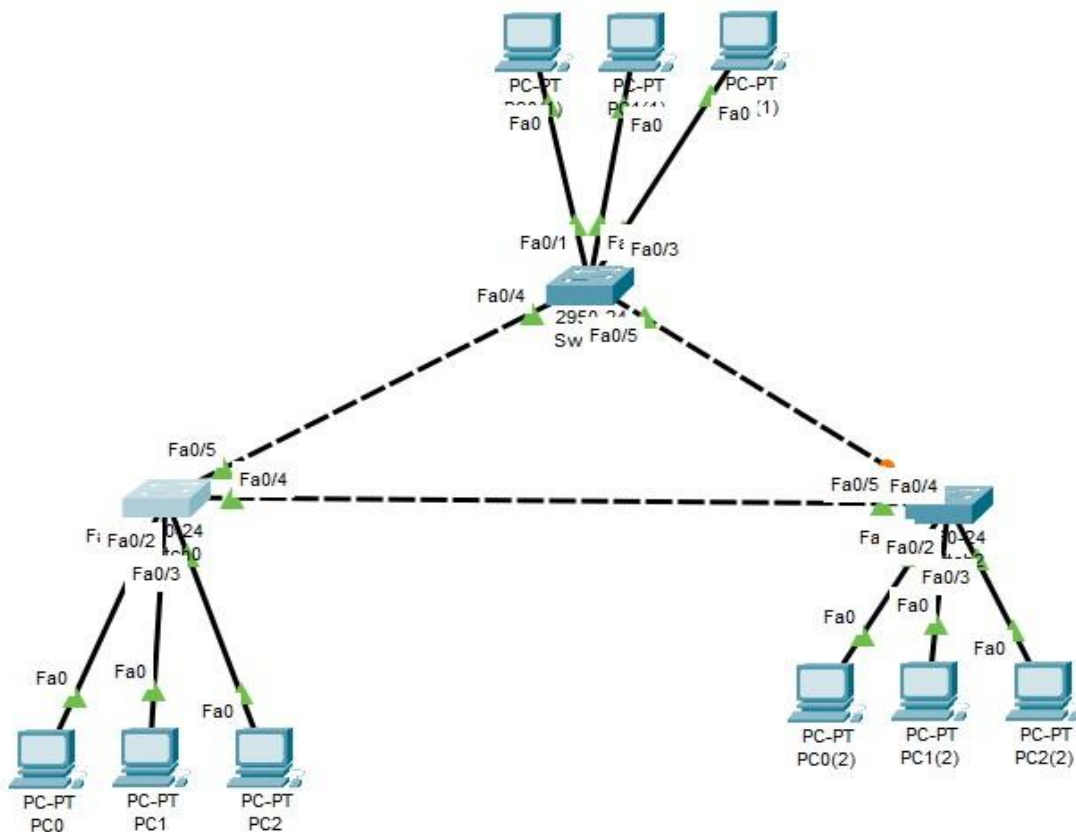
Roll no: BCSM-s21-024



### Task-1:

Create the Vlans on switch.

### Task Solution:



### CLI Commands:

```

Switch(config-vlan)#name vl2
Switch(config-vlan)#ex
Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, Fa0/2, Fa0/3,
Fa0/4                                Fa0/5, Fa0/6, Fa0/7,
Fa0/8                                Fa0/9, Fa0/10,
Fa0/11, Fa0/12                       Fa0/13, Fa0/14,
Fa0/15, Fa0/16                       Fa0/17, Fa0/18,
Fa0/19, Fa0/20                       Fa0/21, Fa0/22,
Fa0/23, Fa0/24
10   vl0                    active
11   vl1                    active
12   vl2                    active
1002 fddi-default          active

```

## Task-2:

Now assign the systems according to the Vlans.

### Switch 1:

Physical Config **CLI** Attributes

IOS Command Line Interface

```

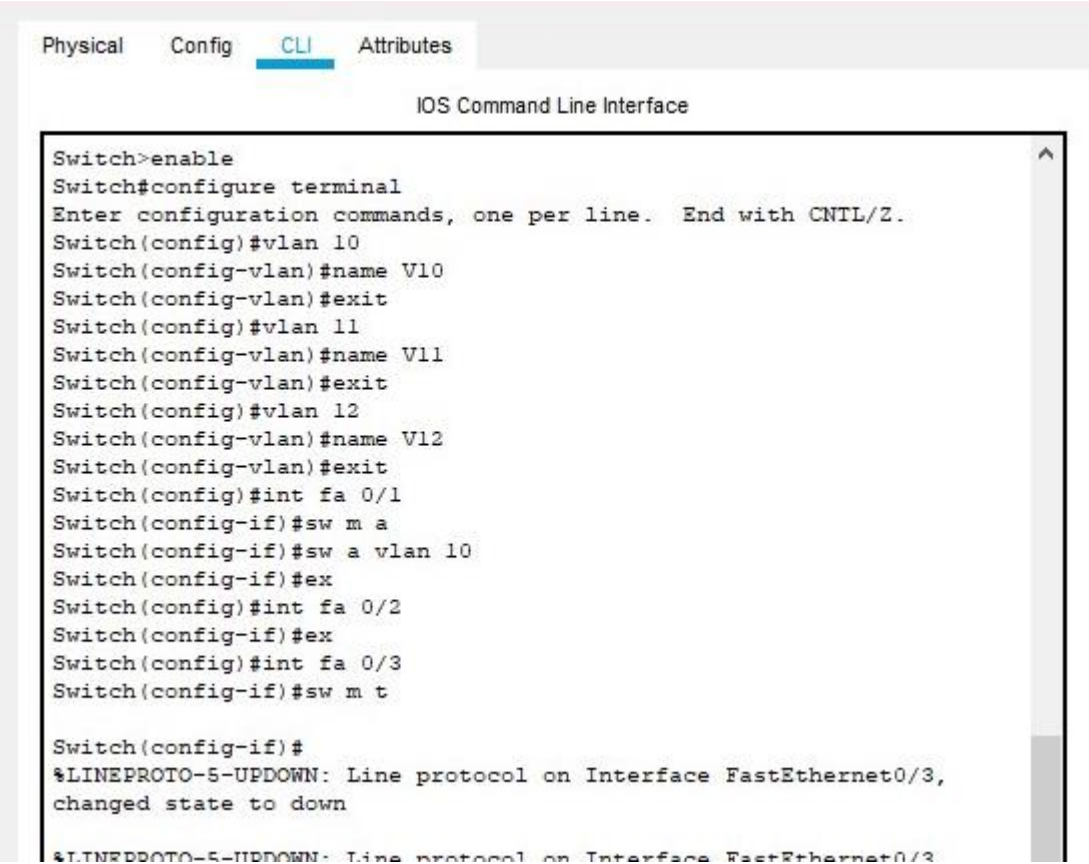
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name V10
Switch(config-vlan)#exit
Switch(config)#vlan 11
Switch(config-vlan)#name V11
Switch(config-vlan)#exit
Switch(config)#vlan 12
Switch(config-vlan)#name V12
Switch(config-vlan)#exit
Switch(config)#int fa 0/1
Switch(config-if)#sw m a
Switch(config-if)#sw a vlan 10
Switch(config-if)#ex
Switch(config)#int fa 0/2
Switch(config-if)#ex
Switch(config)#int fa 0/3
Switch(config-if)#sw m t

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up

```

## Switch 2:



The screenshot shows a network switch's CLI interface with tabs for Physical, Config, CLI (selected), and Attributes. The title bar reads "IOS Command Line Interface". The terminal window displays the following commands and output:

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name V10
Switch(config-vlan)#exit
Switch(config)#vlan 11
Switch(config-vlan)#name V11
Switch(config-vlan)#exit
Switch(config)#vlan 12
Switch(config-vlan)#name V12
Switch(config-vlan)#exit
Switch(config)#int fa 0/1
Switch(config-if)#sw m a
Switch(config-if)#sw a vlan 10
Switch(config-if)#ex
Switch(config)#int fa 0/2
Switch(config-if)#ex
Switch(config)#int fa 0/3
Switch(config-if)#sw m t

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
```

### Switch 3:

```
Physical  Config  CLI  Attributes
IOS Command Line Interface
Switch(config-vlan)#name V10
Switch(config-vlan)#exit
Switch(config)#vlan 11
Switch(config-vlan)#name V11
Switch(config-vlan)#exit
Switch(config)#vlan 12
Switch(config-vlan)#name V12
Switch(config-vlan)#exit
Switch(config)#int fa 0/1
Switch(config-if)#sw m a
Switch(config-if)#sw a vlan10
Switch(config-if)#^
% Invalid input detected at '^' marker.
Switch(config-if)#sw a vlan 10
Switch(config-if)#ex
Switch(config)#int fa 0/2
Switch(config-if)#ex
Switch(config)#int fa 0/3
Switch(config-if)#sw m t
Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3,
changed state to up
```

**Task-3:** Now check the vlans to find out the active vlsn and ports connected with the switch.

### Switch 1:

```
Physical  Config  CLI  Attributes
IOS Command Line Interface
Fa0/11
Fa0/14, Fa0/15
Fa0/18, Fa0/19
Fa0/22, Fa0/23
10 V10 active
11 V11 active
12 V12 active
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Transl Trans2
-----
1 enet 100001 1500 - - - - - 0
0
10 enet 100010 1500 - - - - - 0
0
11 enet 100011 1500 - - - - - 0
0
--More-- |
Fa0/8, Fa0/9, Fa0/10,
Fa0/12, Fa0/13,
Fa0/16, Fa0/17,
Fa0/20, Fa0/21,
Fa0/24
Fa0/1
```

***Switch2:***

```

Physical    Config    CLI    Attributes
-----
IOS Command Line Interface

Fa0/11
Fa0/14, Fa0/15
Fa0/18, Fa0/19
Fa0/22, Fa0/23
Fa0/24
Fa0/1
10    V10    active
11    V11    active
12    V12    active
1002  fddi-default    active
1003  token-ring-default    active
1004  fddinet-default    active
1005  trnet-default    active

VLAN Type SAID      MTU    Parent RingNo BridgeNo Stp    BrdgMode
Trans1 Trans2
-----
1    enet    100001    1500    -    -    -    -    -    0
0
10   enet    100010    1500    -    -    -    -    -    0
0
11   enet    100011    1500    -    -    -    -    -    0
0
--More--

```

***Switch 3:***

```
Physical  Config  CLI  Attributes
IOS Command Line Interface

Switch>show vlan

VLAN Name                Status      Ports
-----
1    default                active      Fa0/2, Fa0/5, Fa0/6,
Fa0/7                                Fa0/8, Fa0/9, Fa0/10,
Fa0/11                                Fa0/12, Fa0/13,
Fa0/14, Fa0/15                        Fa0/16, Fa0/17,
Fa0/18, Fa0/19                        Fa0/20, Fa0/21,
Fa0/22, Fa0/23                        Fa0/24
10   V10                     active      Fa0/1
11   V11                     active
12   V12                     active
1002 fddi-default          active
1003 token-ring-default    active
1004 fddinet-default       active
1005 trnet-default         active

VLAN Type  SAID          MTU   Parent RingNo BridgeNo Stp    BrdgMode
Trans1 Trans2
-----
```