**Name – Jain Samkitkumar Hasmukhlal Roll. No. - 20**

**Assignment 5A – VLAN**

**Configuration:**

**Switch 0:**

Switch>enable

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

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

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 2

Switch(config-vlan)#name sam

Switch(config-vlan)#exit

Switch(config)#exit

%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

2 sam 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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface fastethernet0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#interface fastethernet0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#interface fastethernet0/3

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active 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

2 sam active Fa0/1, Fa0/2, Fa0/3

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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 3

Switch(config-vlan)#name kit

Switch(config-vlan)#exit

Switch(config)#interface range fastethernet0/4-fastethernet0/6

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 3

Switch(config-if-range)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active 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

2 sam active Fa0/1, Fa0/2, Fa0/3

3 kit active Fa0/4, Fa0/5, Fa0/6

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

2 enet 100002 1500 - - - - - 0 0

3 enet 100003 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

**Results of above configuration are:**

Packet Tracer PC Command Line 1.0

**PC0:**

PC>ipconfig

IP Address......................: 10.0.0.1

Subnet Mask.....................: 255.0.0.0

Default Gateway.................: 0.0.0.0

**PING**

**PC0:**

PC>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 10.0.0.4:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=47ms TTL=128

Reply from 10.0.0.2: bytes=32 time=63ms TTL=128

Reply from 10.0.0.2: bytes=32 time=59ms TTL=128

Reply from 10.0.0.2: bytes=32 time=62ms TTL=128

Ping statistics for 10.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 47ms, Maximum = 63ms, Average = 57ms

**Name – Jain Samkitkumar Hasmukhlal Roll. No. - 20**

**Assignment 5A – DTP**

**Configuration:**

**Switch 0:**

Switch>enable

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa1/1, Fa2/1, Fa3/1

Fa4/1, Fa5/1

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

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 2

Switch(config-vlan)#name v1

Switch(config-vlan)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa1/1, Fa2/1, Fa3/1

Fa4/1, Fa5/1

2 v1 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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface fastethernet0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#interface fastethernet1/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa2/1, Fa3/1, Fa4/1, Fa5/1

2 v1 active Fa0/1, Fa1/1

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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface fastethernet2/1

Switch(config-if)#switchport mode trunk

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

Switch(config-if)#exit

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa3/1, Fa4/1, Fa5/1

2 v1 active Fa0/1, Fa1/1

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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

**Switch 1:**

Switch>enable

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa1/1, Fa2/1, Fa3/1

Fa4/1, Fa5/1

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

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 2

Switch(config-vlan)#name v2

Switch(config-vlan)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa1/1, Fa2/1, Fa3/1

Fa4/1, Fa5/1

2 v2 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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface fastethernet0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#interface fastethernet1/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 2

Switch(config-if)#exit

Switch(config)#exit

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa2/1, Fa3/1, Fa4/1, Fa5/1

2 v2 active Fa0/1, Fa1/1

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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface fastethernet2/1

Switch(config-if)#switchport mode trunk

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

Switch(config-if)#exit

Switch(config)#exit

Switch#show vlan

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa3/1, Fa4/1, Fa5/1

2 v2 active Fa0/1, Fa1/1

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

2 enet 100002 1500 - - - - - 0 0

1002 enet 101002 1500 - - - - - 0 0

1003 enet 101003 1500 - - - - - 0 0

1004 enet 101004 1500 - - - - - 0 0

1005 enet 101005 1500 - - - - - 0 0

**IP Config:**

PC>ipconfig

IP Address......................: 10.0.0.1

Subnet Mask.....................: 255.0.0.0

Default Gateway.................: 0.0.0.0

**P.I.N.G.: -**

**PC0: (Before)**

PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 10.0.0.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

**PC0: (After)**

PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=78ms TTL=128

Reply from 10.0.0.3: bytes=32 time=92ms TTL=128

Reply from 10.0.0.3: bytes=32 time=94ms TTL=128

Reply from 10.0.0.3: bytes=32 time=93ms TTL=128

Ping statistics for 10.0.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 78ms, Maximum = 94ms, Average = 89ms