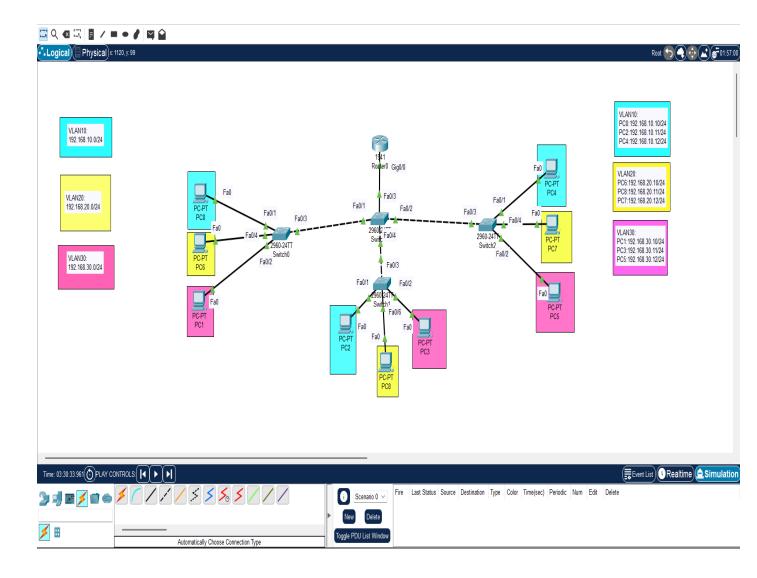
Report of Day-5

Today's Objective:
Topic:
Inter-VLAN routing using Router on a Stick.
Practical:
 Configure trunk port on Switch and Sub-interfaces on Router. Enable communication VLAN's.
Step-1:
Setup the IP Address.
Step-2:
Create the VLAN's.
Step-3:
Set up the Ports for each of the VLAN's.
Step-4:
Setup the trunk ports.
Step-5:
Configure the Router.
Step-6:
Establish Connection and send message between different VLAN's



Switch3:

```
%SYS-5-CONFIG_I: Configured from console by console
Switch#show interface trunk
       Mode
                       Encapsulation Status
                                                 Native vlan
Port
                       802.1q
                                  trunking
Fa0/1
         on
     on
on
Fa0/2
                       802.1q
                                     trunking
                       802.1q
Fa0/3
                                     trunking
                                                   1
Fa0/4
                      802.lq
                                    trunking
         Vlans allowed on trunk
Port.
Fa0/1
         1-1005
Fa0/2
          1-1005
          1-1005
Fa0/3
Fa0/4
          1-1005
          Vlans allowed and active in management domain
Port
         1,10,20,30
Fa0/1
Fa0/2
          1,10,20,30
Fa0/3
          1,10,20,30
Fa0/4
          1,10,20,30
Port
         Vlans in spanning tree forwarding state and not pruned
Fa0/1
         1,10,20,30
          1,10,20,30
1,10,20,30
Fa0/2
Fa0/3
Fa0/4
         1,10,20,30
Switch#
Switch#exit
```

Router:

```
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0.10, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.10, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0.20, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.20, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet0/0.30, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.30, changed state to up
Router(config-if) #exit
Router(config) #show ip interface brief
% Invalid input detected at '^' marker.
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip interface brief
                                       OK? Method Status
                                                                          Protocol
                                       YES unset up
YES manual up
GigabitEthernet0/0
                       unassigned
GigabitEthernet0/0.10 192.168.10.1
                                                                          up
GigabitEthernet0/0.20 192.168.20.1
                                        YES manual up
GigabitEthernet0/0.30 192.168.30.1
                                      YES manual up
                                     YES unset administratively down down
YES unset administratively down down
GigabitEthernet0/1
                      unassigned
Vlanl
                       unassigned
Router#
```

Establish Connection between the different VLAN's and send message.

