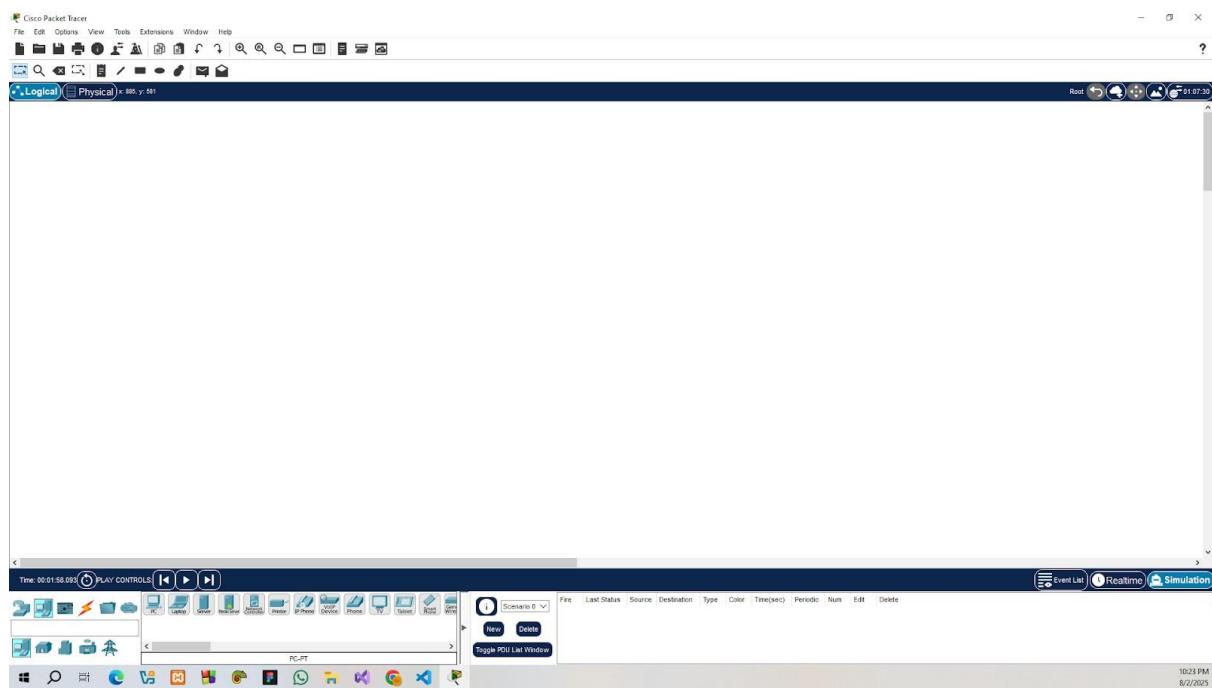


## Experiment Name: SMTP Server configuration

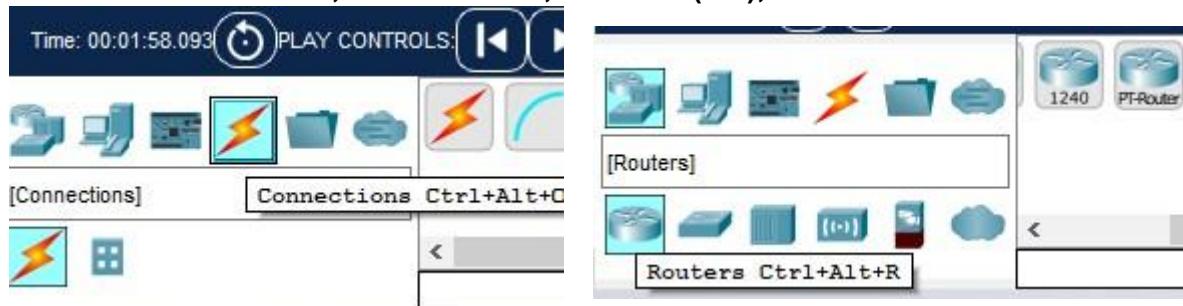
### Devices and Component List: Device name Cisco Packet Tracer

**Step 1:** First of all, start Cisco Packet Tracer

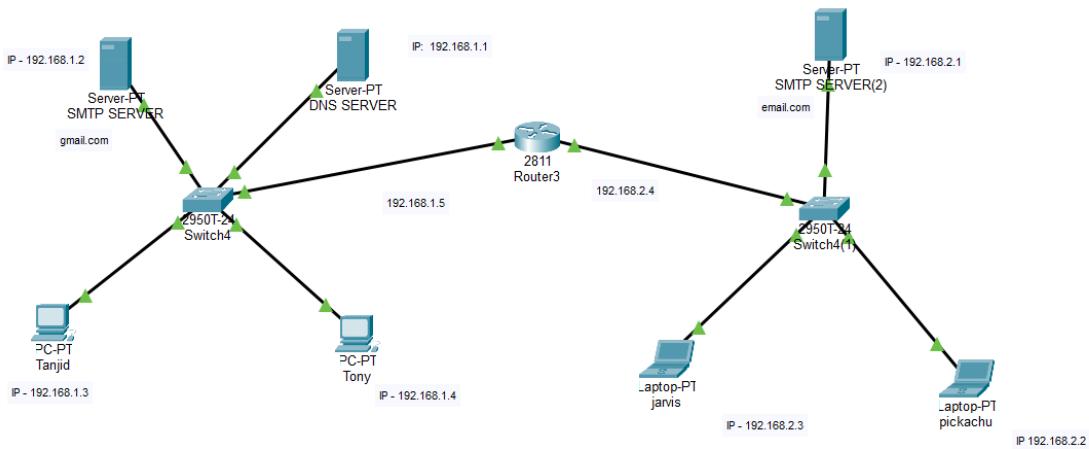


**Step 2 :** Before setting up the network layout, it's important to first decide which devices (like routers, switches, and end-user equipment) to use and determine how they will be connected. This selection process ensures the network will function effectively once built.

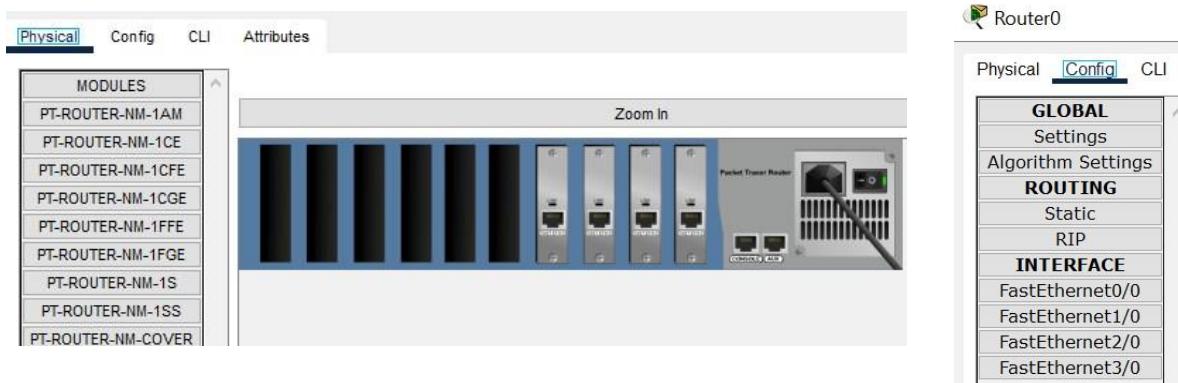
We will use **Switches, Connections, Devices (PC), and Routers**.



### Step 3: Creating the network by connecting all required devices.



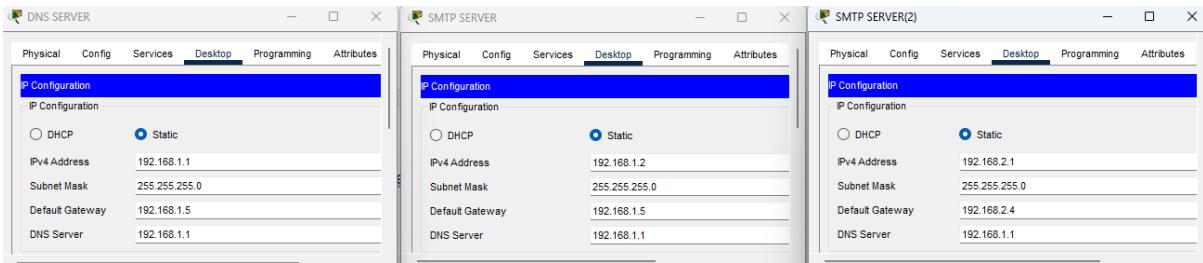
**Step 4:** Setting up the router's port in Physical mode. After setting up the router port, configure the router in the CLI by giving some command. Which are shown below. As our network has only two Ethernet ports, we will only configure the ports fa0/0 & fa1/0.



**Step 5:** I have written the code to configure the Router.

My FastEthernet 1/0	My FastEthernet 0/0
<pre>conf t int f0/0 ip add 192.168.1.5 255.255.255.0 no sh</pre>	<pre>conf t int f0/1 ip add 192.168.2.4 255.255.255.0 no sh</pre>

**Step 6:** Assign a unique IP address, subnet masks, and a default gateway to each Server in the network.

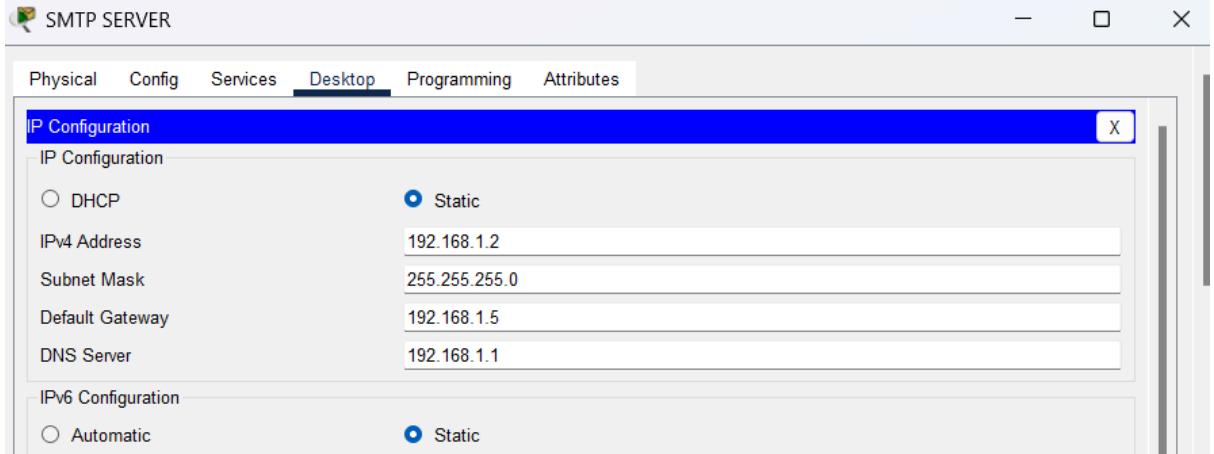


IP addresses I assigned for Server's are:

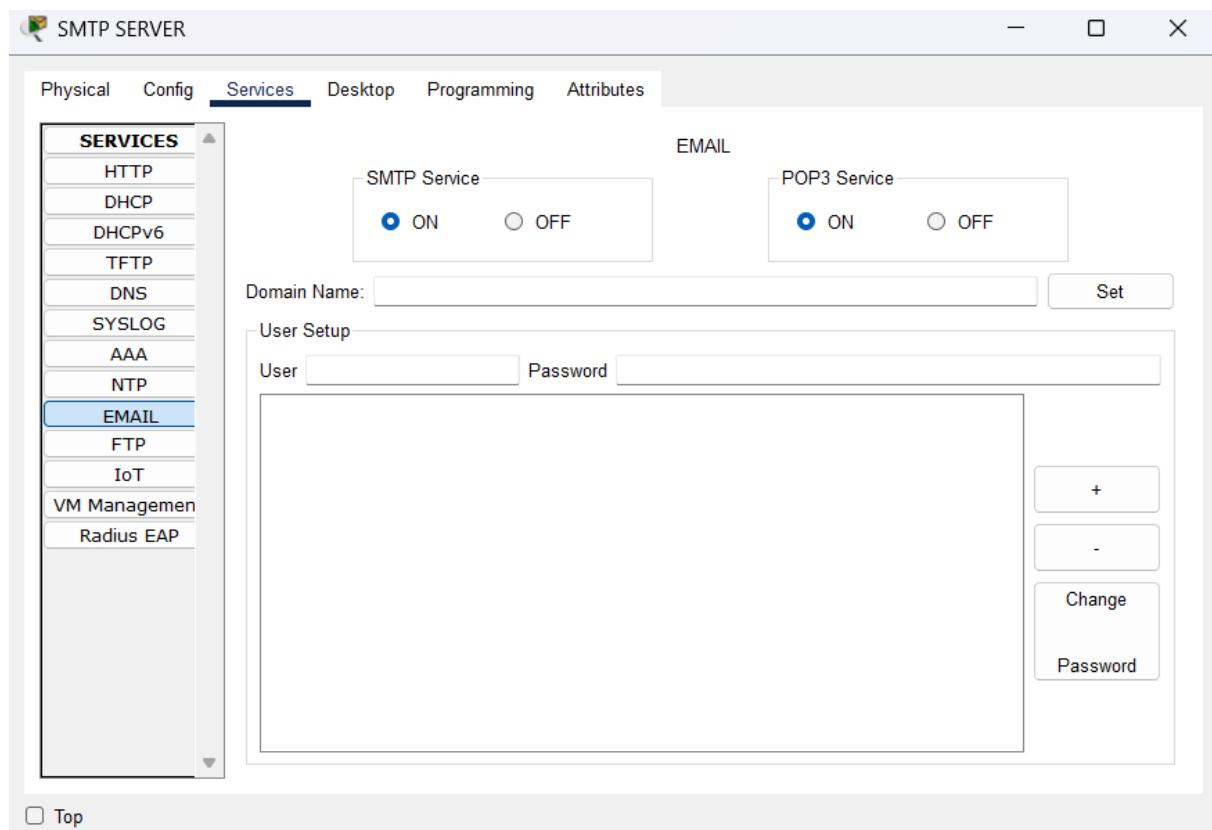
SMTP SERVER:	DNS SERVER:	SMTP SERVER(2):
<u>Turn On DHCP</u>	<u>Turn On DNS</u>	<u>Turn On HTTP</u>
IP: 192.168.1.2	IP: 192.168.1.1	IP: 192.168.2.1
Subnet mask: 255.255.255.0	Subnet mask: 255.255.255.0	Subnet mask: 255.255.255.0
Default gateway: 192.168.1.5	Default gateway: 192.168.1.5	Default gateway: 192.168.1.4
Dns: 192.168.1.1	Dns: 192.168.1.1	Dns: 192.168.1.1

### SMTP SERVER Configurations:

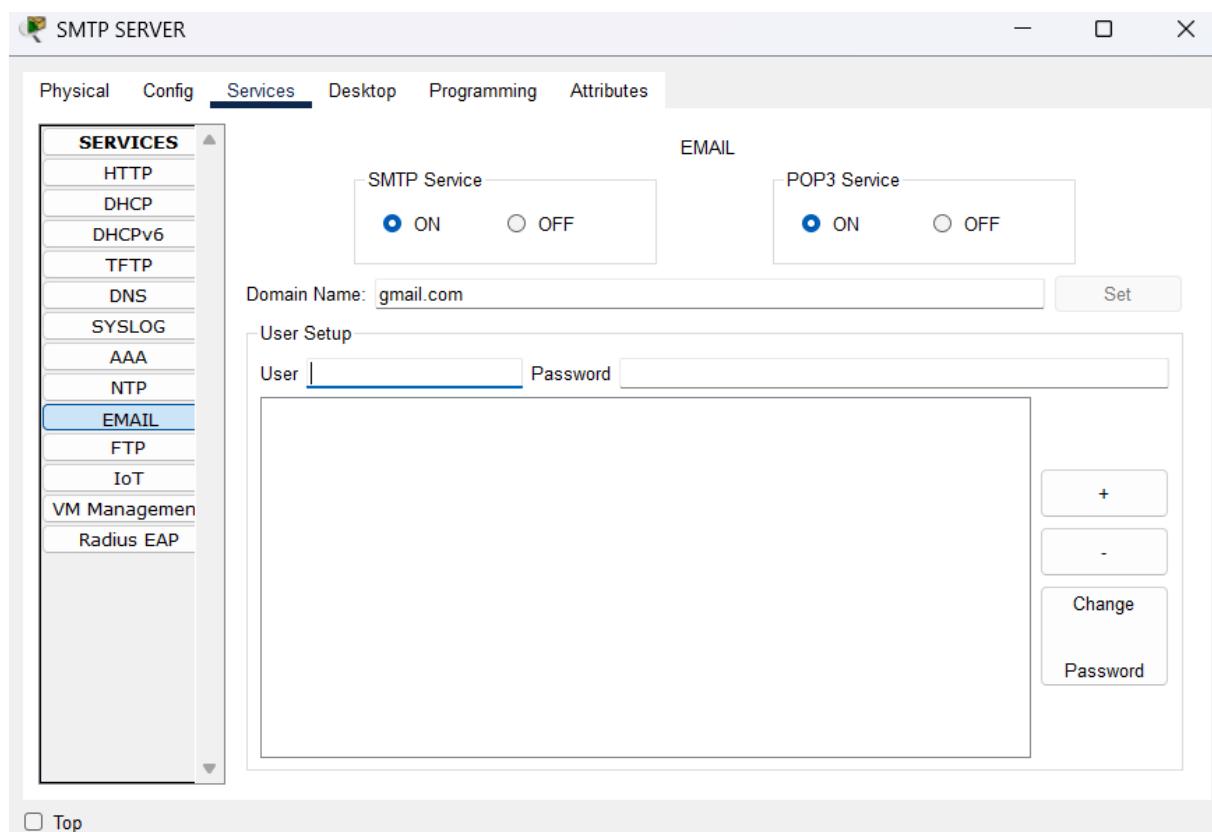
1. Make sure Setup Ip and Default Gateway:



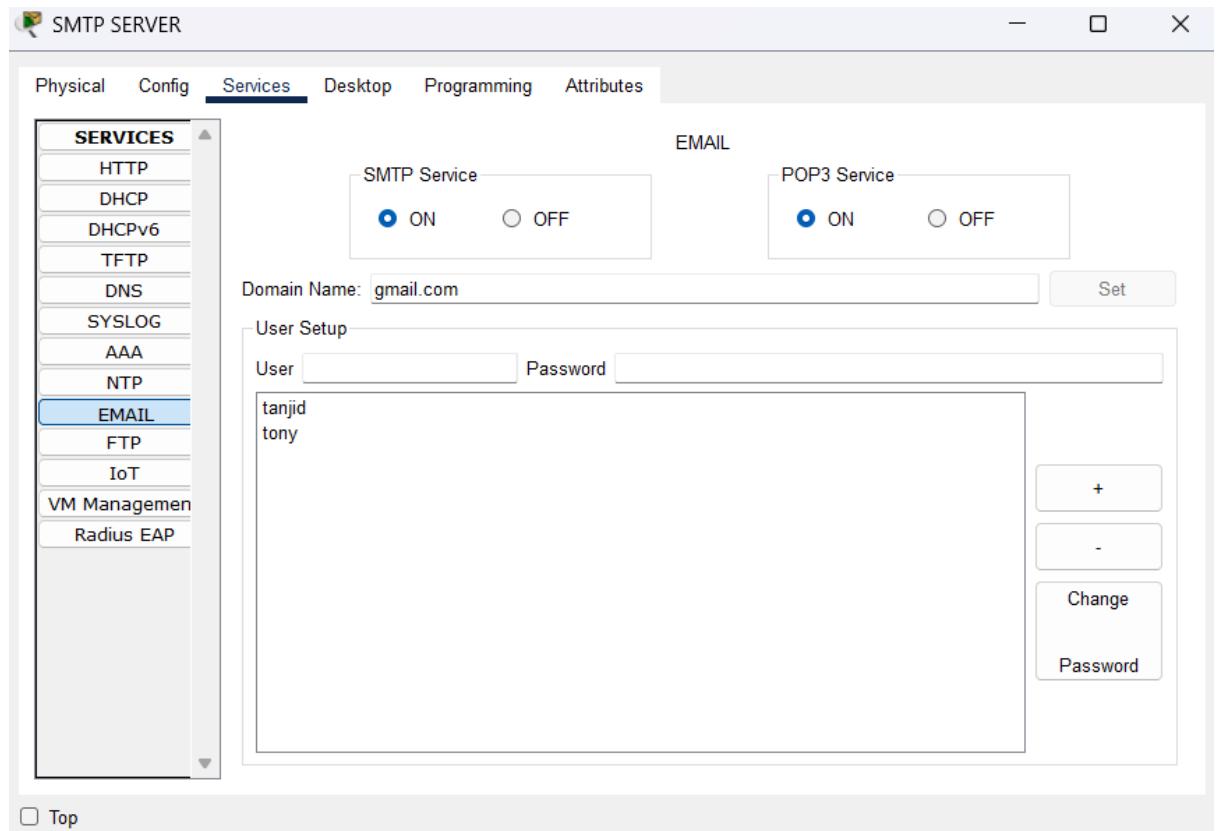
2. Now Go to **Services** and Select **EMAIL**:



3. Now Give a Domain Name which is Register in DNS Server when DNS configurations:

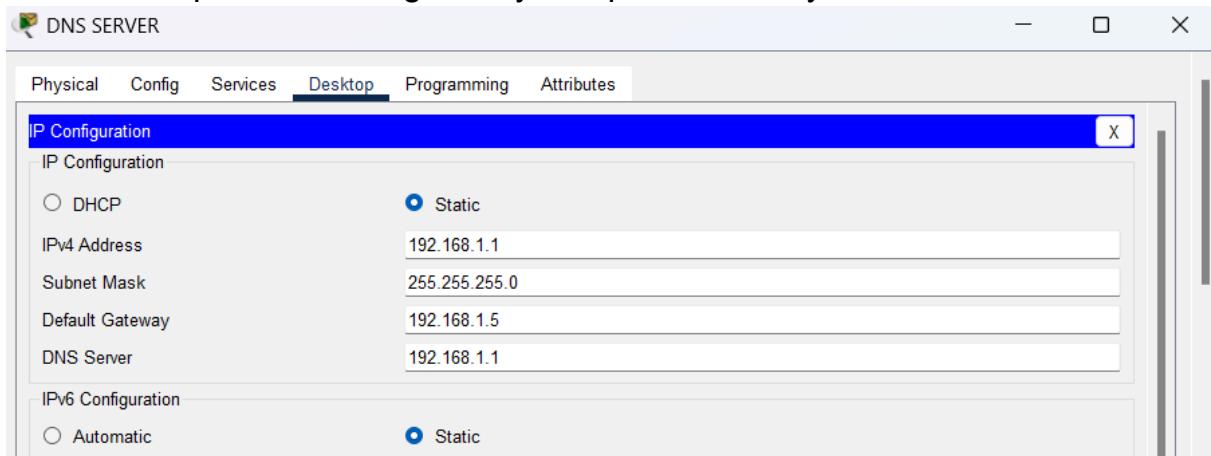


And create some users to send and receive email:

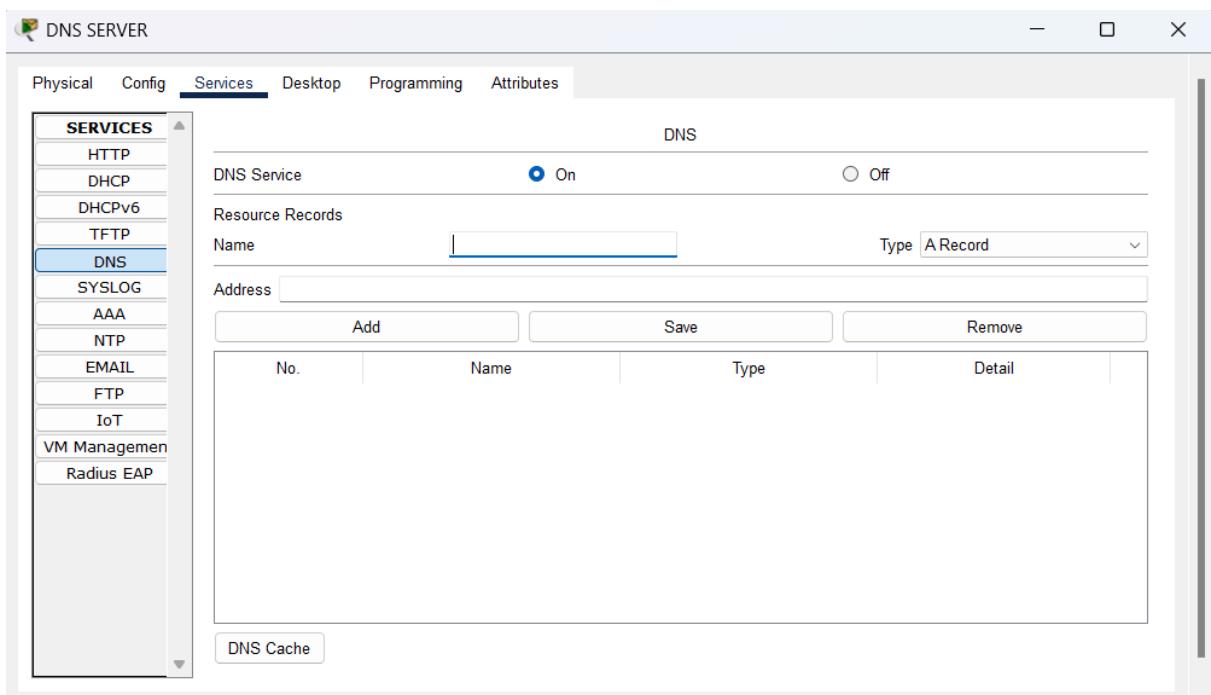


## DNS SERVER Configuration:

1. Make Sure Ip and default gateway setup successfully



2. Now Go To Services and Select DNS and Turn On the DNS Service:



### 3. Now We add domain name we use our server :

First:

- **Name:** gmail.com
- **Address:** 192.168.1.2
- **Record Type:** A

DNS

DNS Service  On  Off

Resource Records

Name	Type
gmail.com	A Record

Address 192.168.1.2

Add Save Remove

Second:

- **Name:** tanjidail.com
- **Address:** 192.168.2.1
- **Record Type:** CNAME

DNS

DNS Service  On  Off

Resource Records

Name	Type
tanjidail.com	A Record

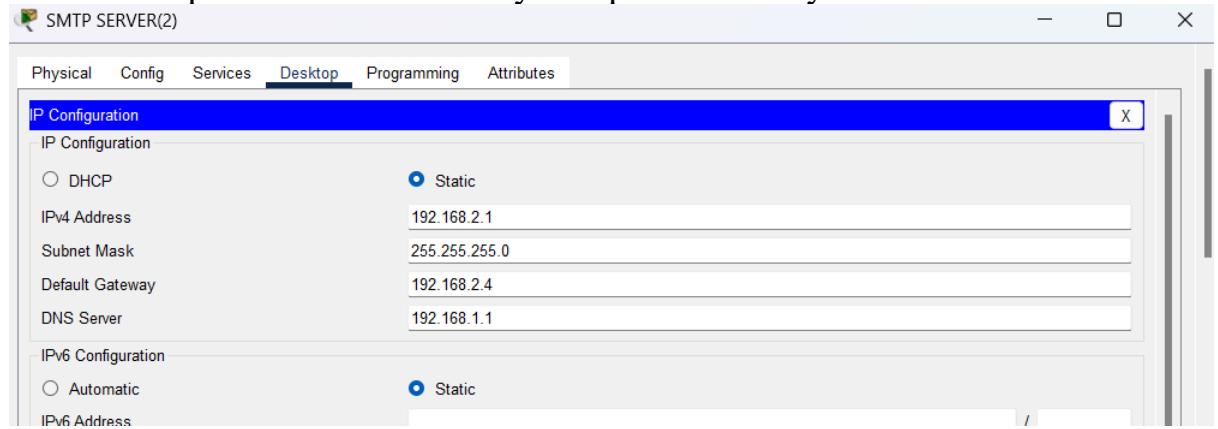
Address 192.168.2.1

Add Save Remove

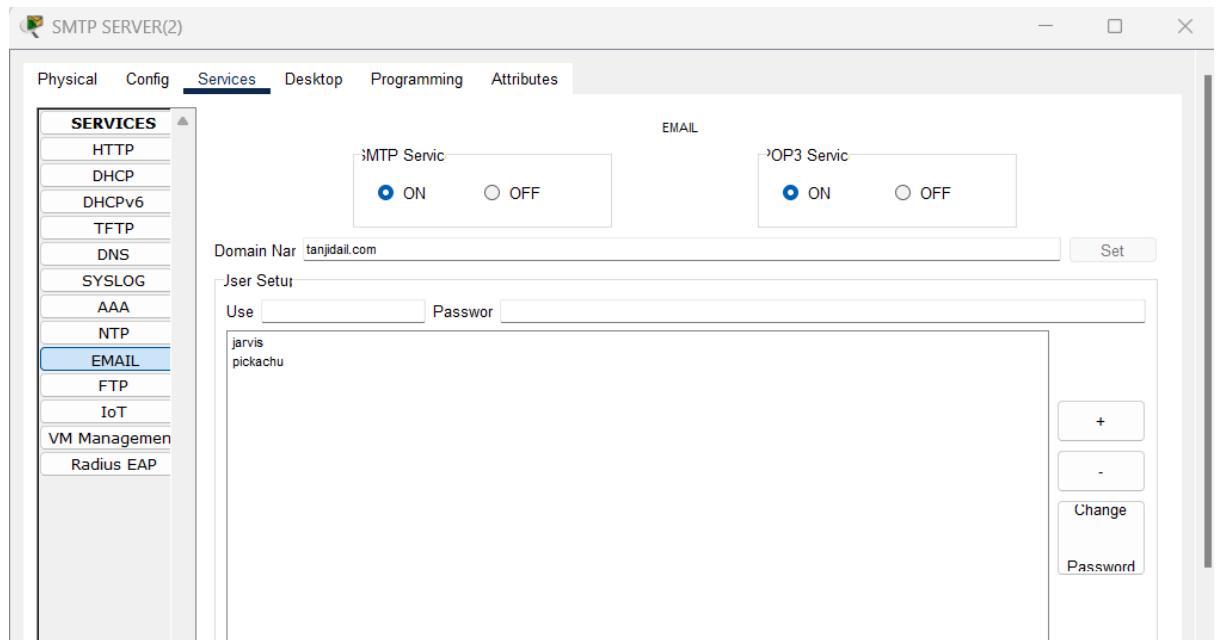
No.	Name	Type	Detail
0	gmail.com	A Record	192.168.1.2

## SMTP SERVER(2) Configurations:

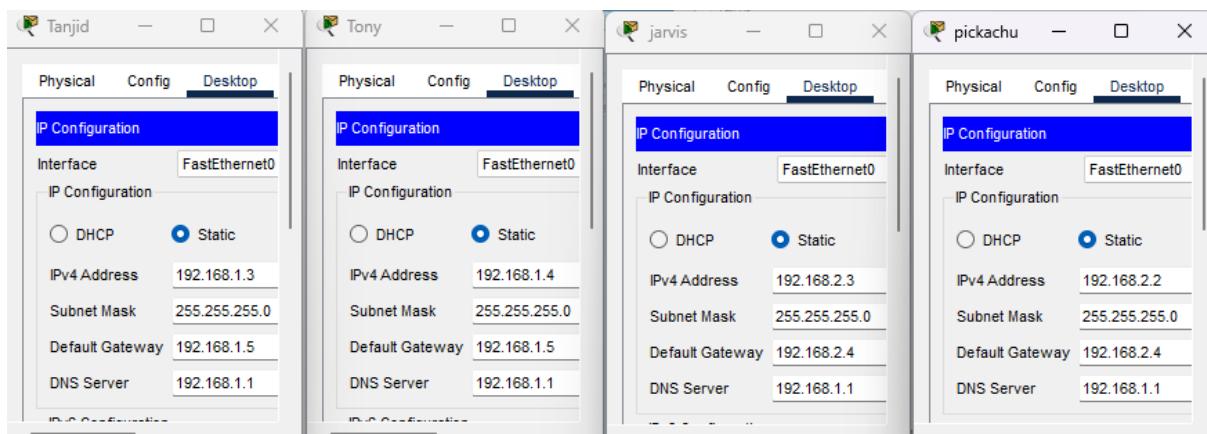
1. Make sure Ip and Default Gateway Setup Successfully



2. Now Go To Service and Select **EMAIL** and follow the **SMTP SERVER** setup Step 2,3 and create a new domain name and some users.

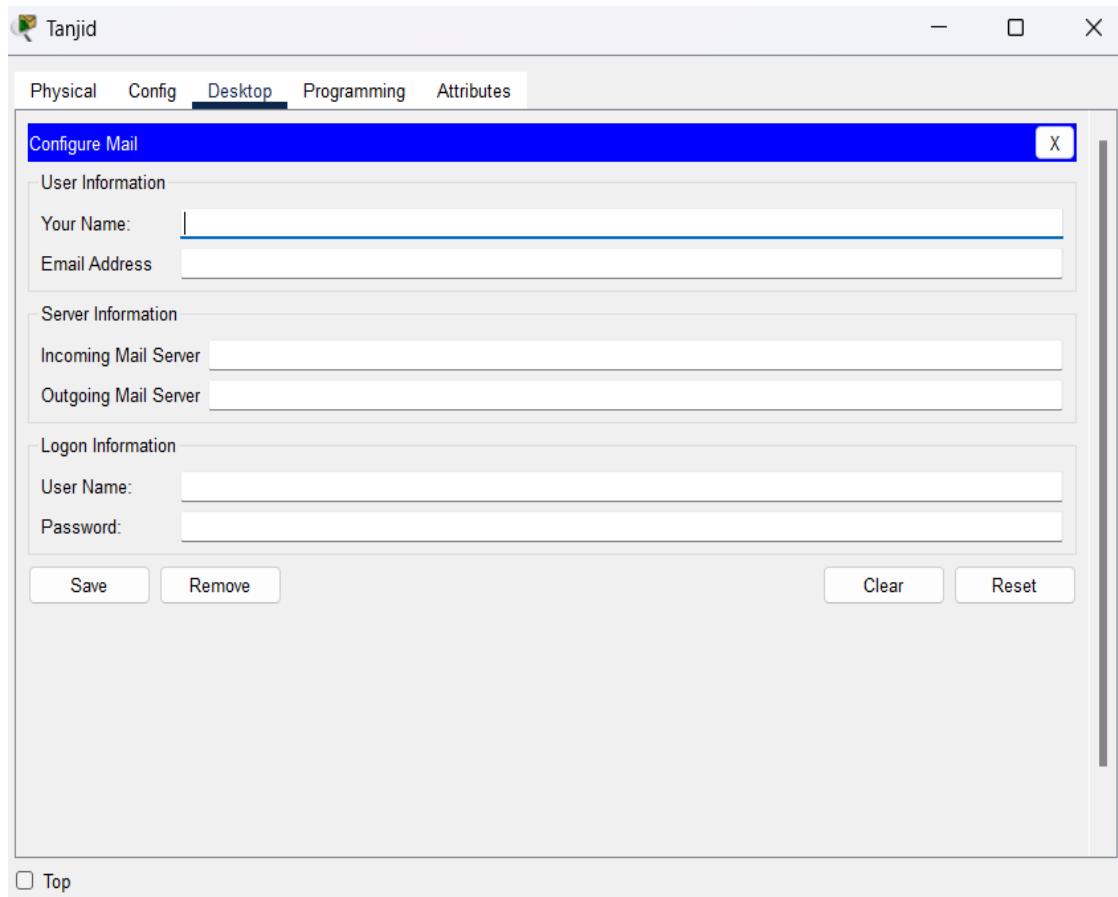


**Step 7.** Now We Setup Every End Device We Assign Unique Ip, Subnet Mask, Default Gateway, Dns.

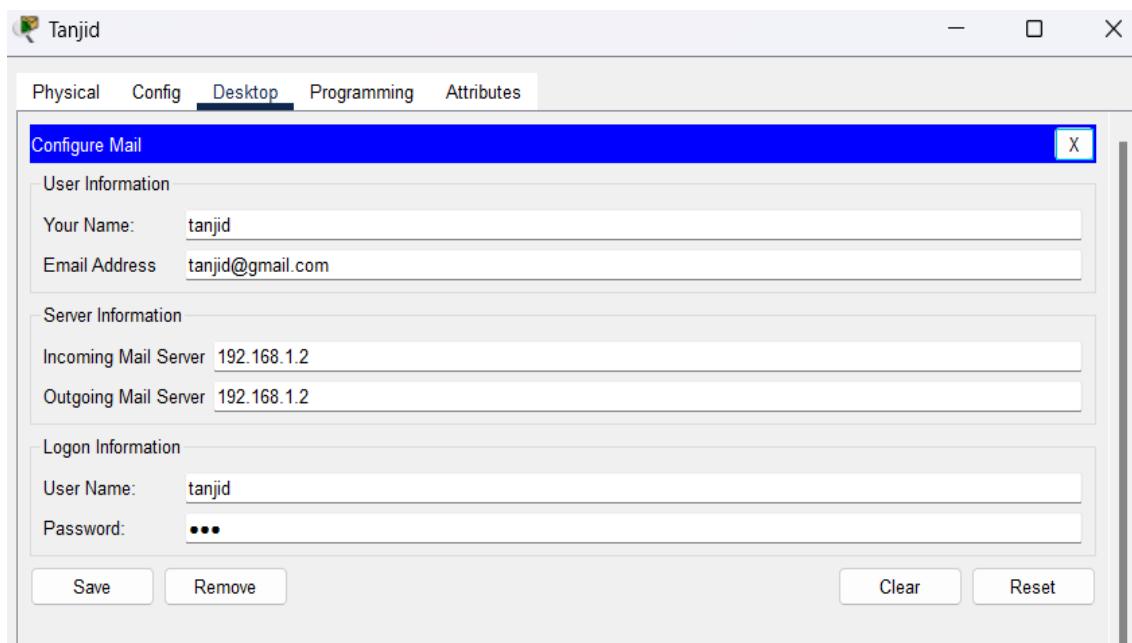


**Step 8:** Now we move to setup email configuration in every end device:

1. First Go to Desktop and click email and select configure email:

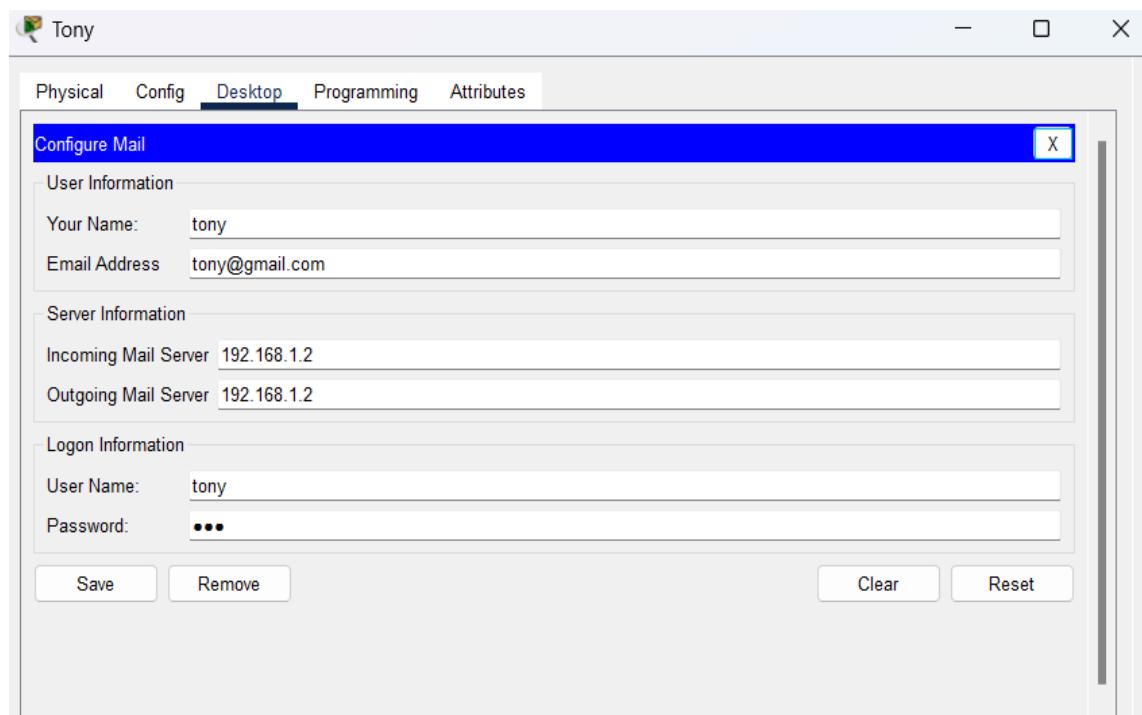


2. Now Fill up all information make sure when assign email address use actual domain name which we register above in dns server and set in smtp server:

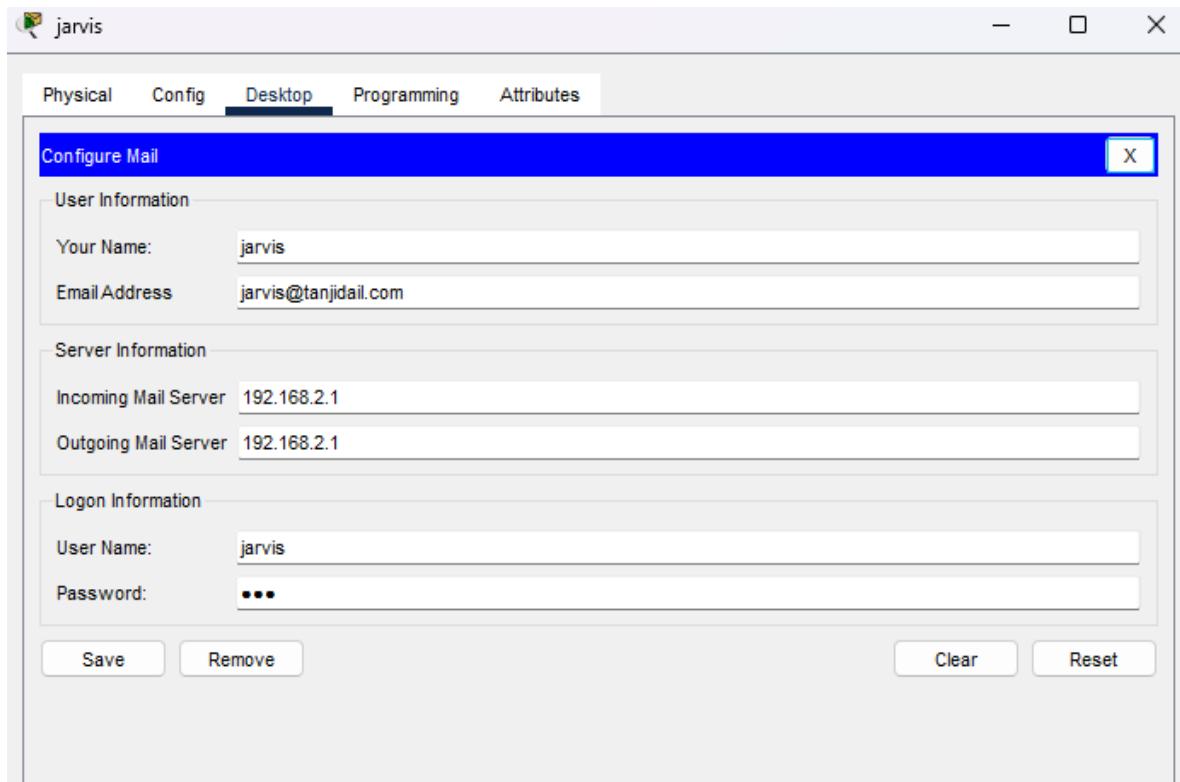


Setup Both side end devices and assign the data as like we see above.

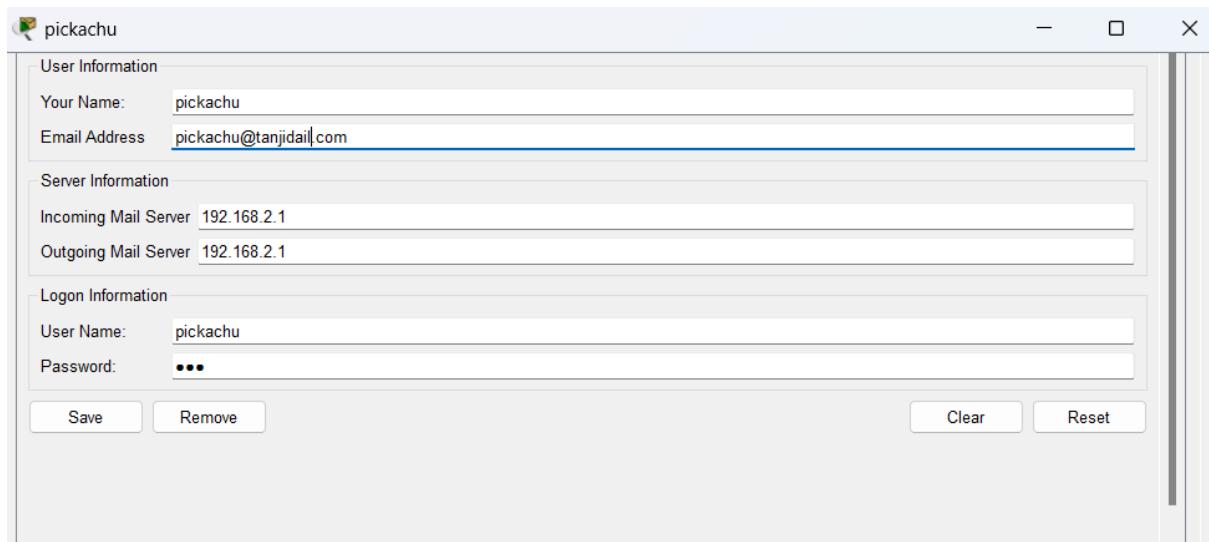
Tony Pc's:



Jarvis Pc's:

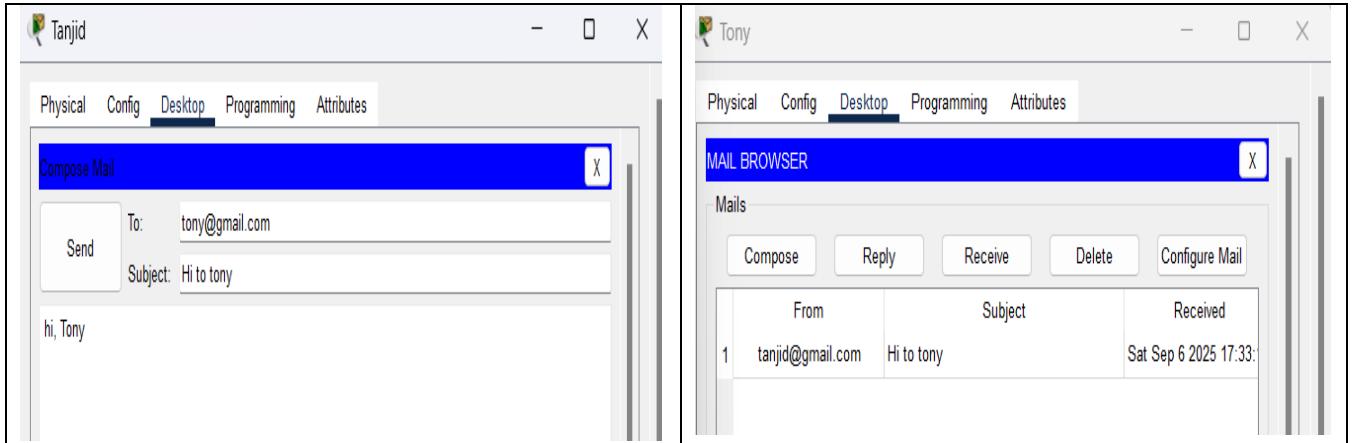


### Pickachu PC's:

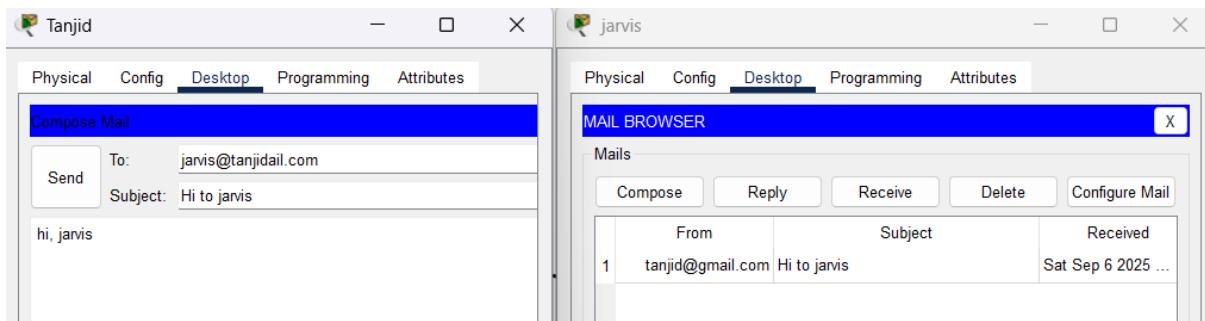


**Step 8:** Now we test the both side with sending email each other end device:

Tanjid to tony pc sending email:



Now we Test Tanjid to Jarvis end device sending email:



We see that we can successfully send and receive mail from both side.