



PLATINUM JUBILEE
Celebrating 75 years of WCE & 20 years of Department



**Walchand College of Engineering,
Sangli**

(Government Aided Autonomous Institute)

Department of Information Technology

Computer Networks Lab

EVEN SEMESTER AY 2021-22

Submitted by

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Batch: S2

Course Code:

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Department of Information Technology

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Experiment Number: 5

Experiment Name: Implement DHCP, WEB and DNS server in CISCO packet tracer and observe .

- a. Auto IP configuration through DHCP server.
- b. WEB server access through browser on host machine.
- c. DNS server to name the WEB access.

Contents:

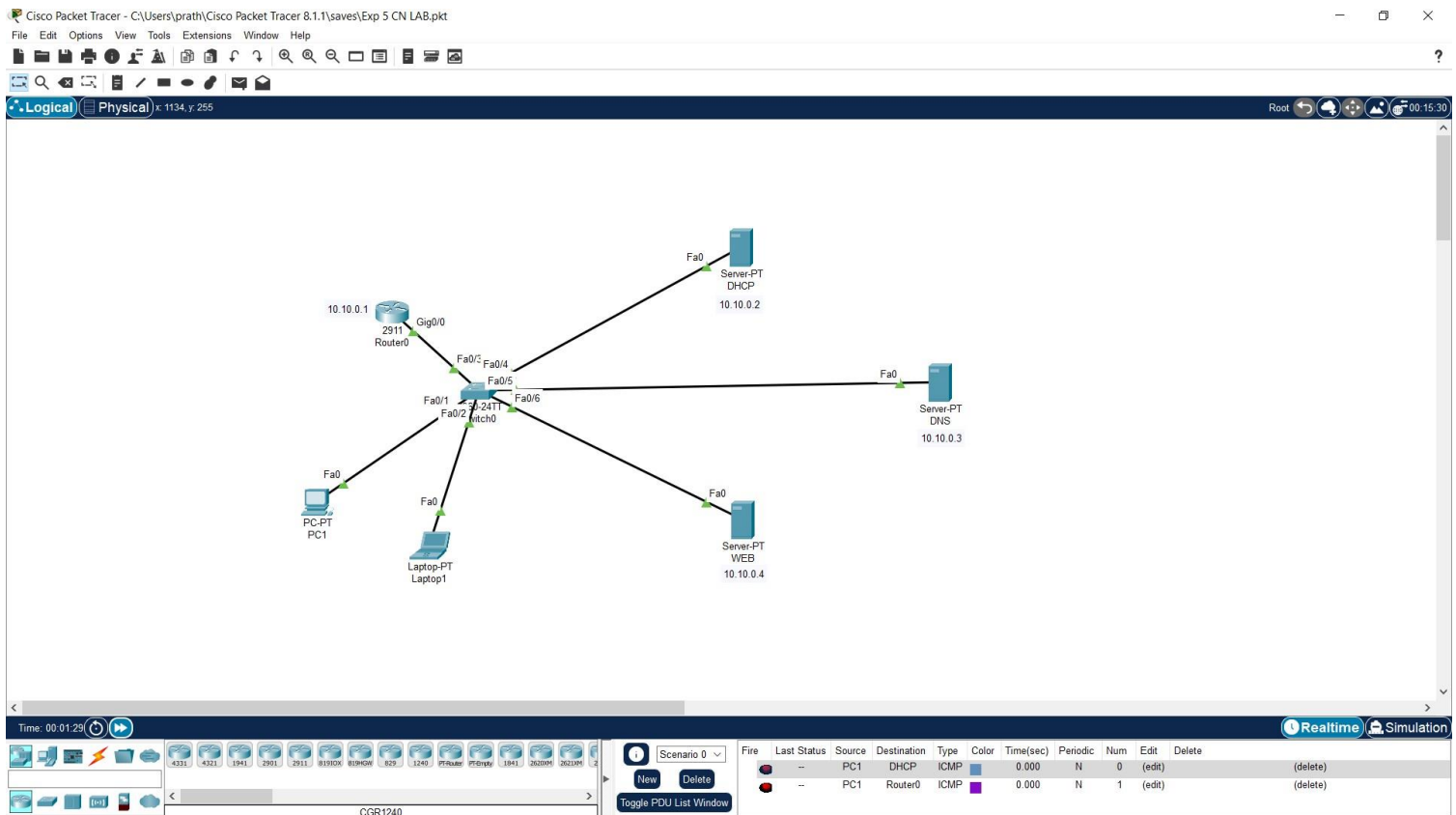
Problem Statement: Implement DHCP, WEB and DNS server in CISCO packet tracer and observe.

- a. Auto IP configuration through DHCP server.
- b. WEB server access through browser on host machine.
- c. DNS server to name the WEB access.

Platform : CISCO packet tracer

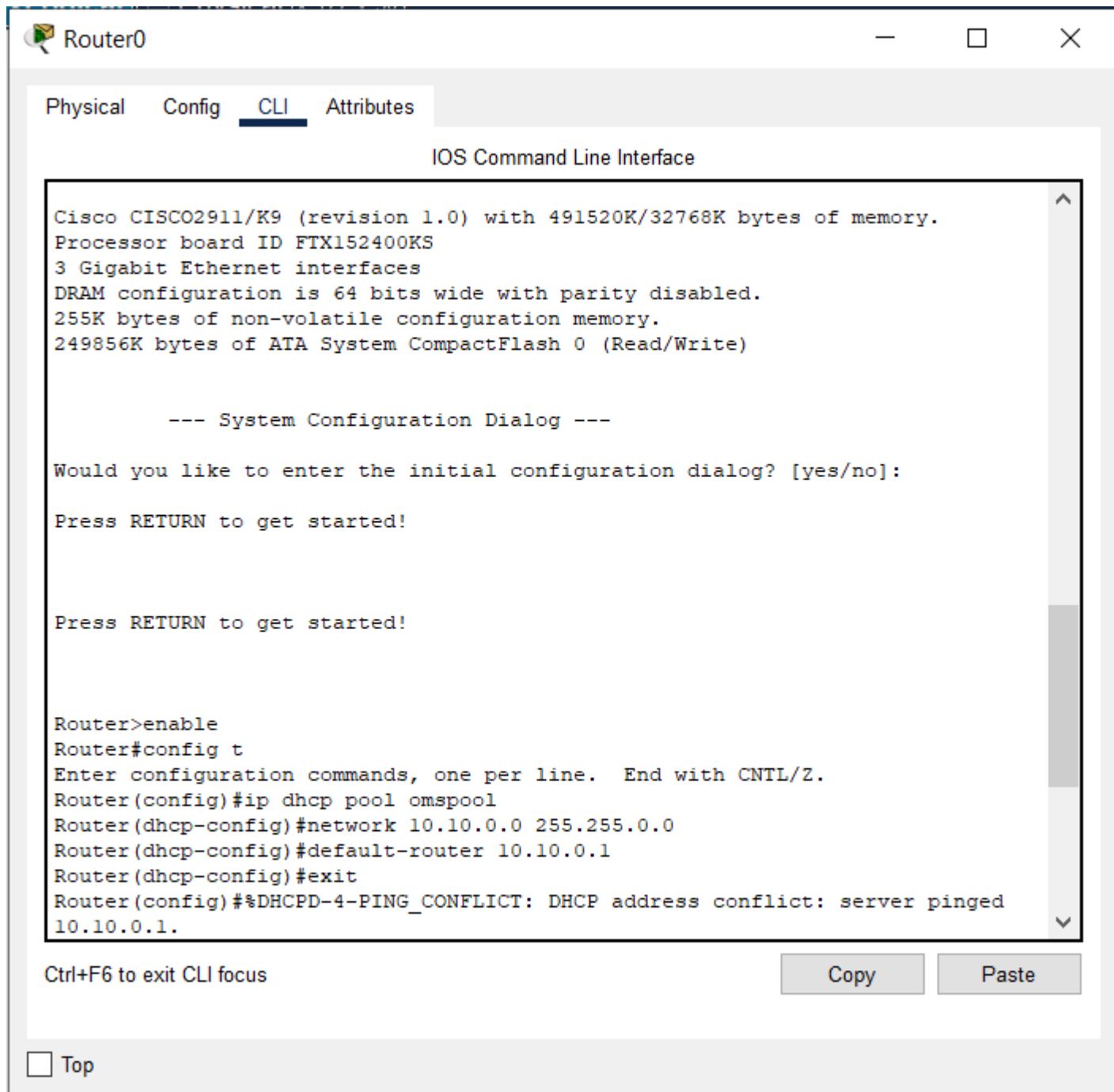
Devices Required : PC , Switch (2960-24TT), Router (1), Server.

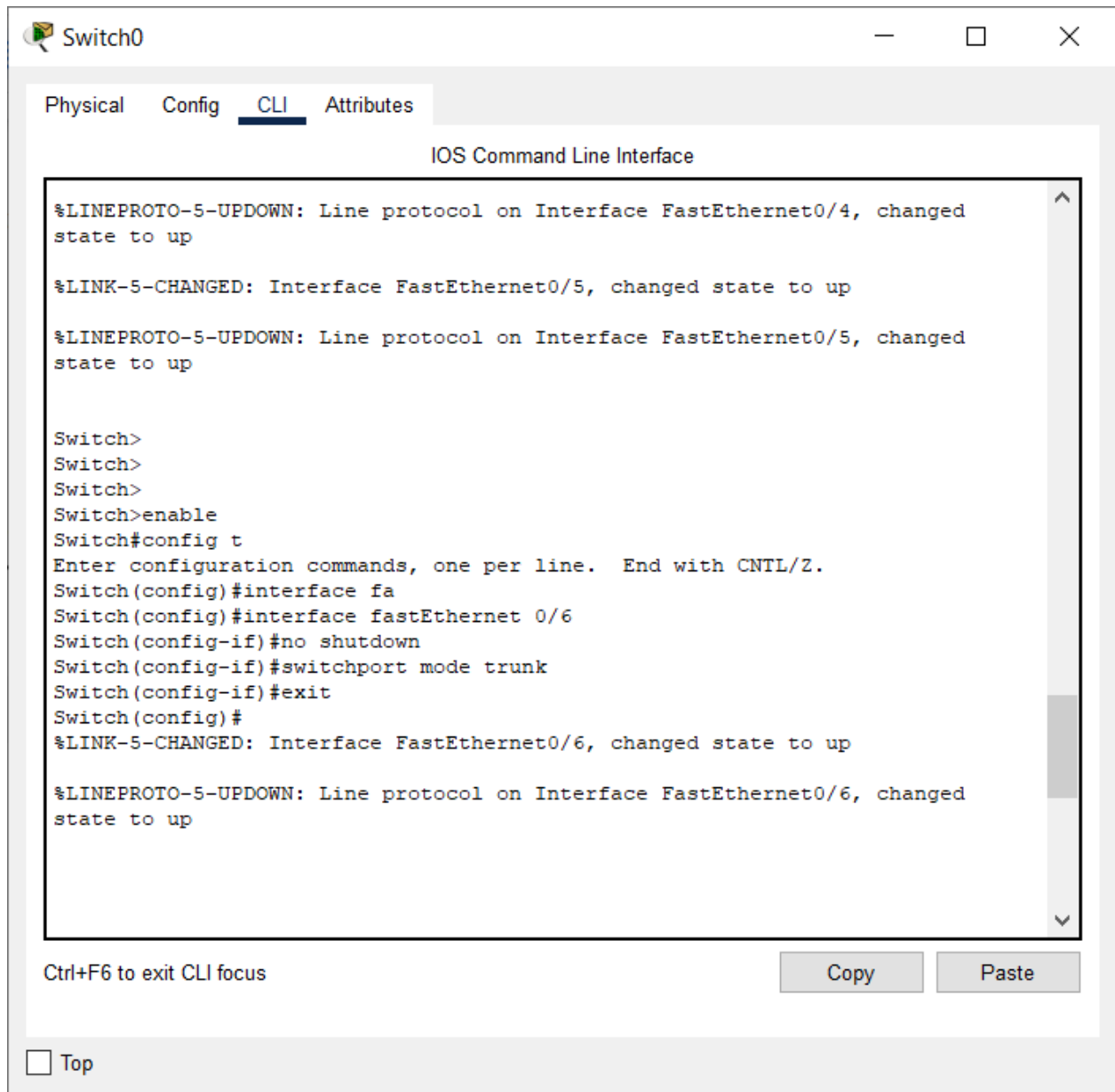
Design :



Implementation :

- i) Create the topology as shown in the above image.
- ii) After creating the topology configure the network





- iii) Configure all the three servers by giving them IP, Subnet and DNS
- vi) For the DHCP server turn on the DHCP and give the ip pool, starting ip and subnet mask.

Server0

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DHCP

Interface

FastEthernet0

Service

On

Off

Pool Name

omspool

Default Gateway

10.10.0.1

DNS Server

10.10.0.3

Start IP Address :

10

10

0

5

Subnet Mask:

255

255

0

0

Maximum Number of Users :

512

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
omspool	10.10....	10.10....	10.10....	255.25...	512	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	512	0.0.0.0	0.0.0.0

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vii) Enter the DNS for each http request by giving the address as ip

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

DNS

DNS Service

OnOff

Resource Records

Name

Type

A Record

Address

Add

Save

Remove

No.	Name	Type	Detail
0	www.om.com	A Record	10.10.0.2
1	www.web.com	A Record	10.10.0.4

DNS Cache

Top

viii) Edit the WEB index.html page and add your customization.

WEB

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

HTTP

HTTPS

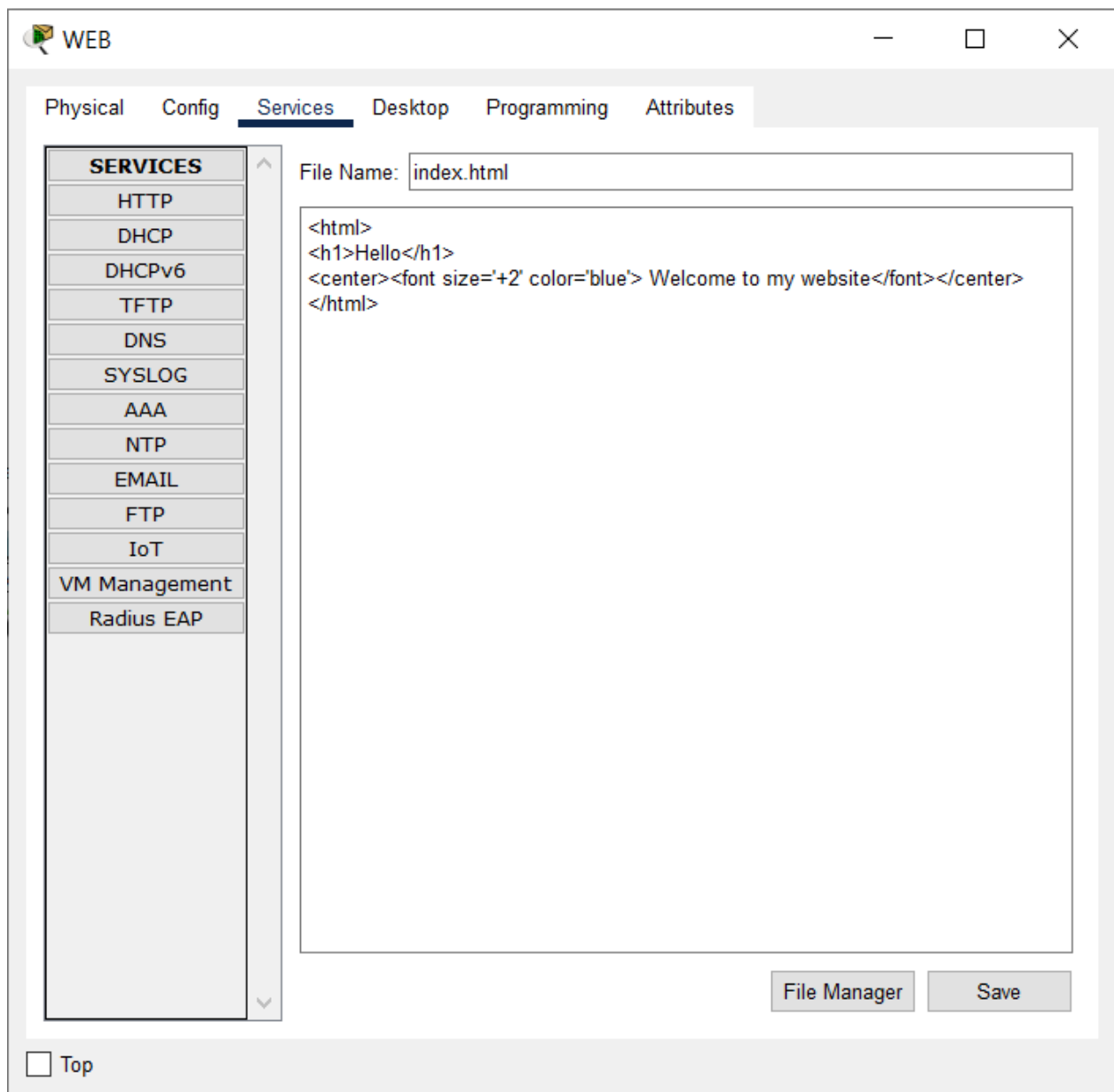
File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)

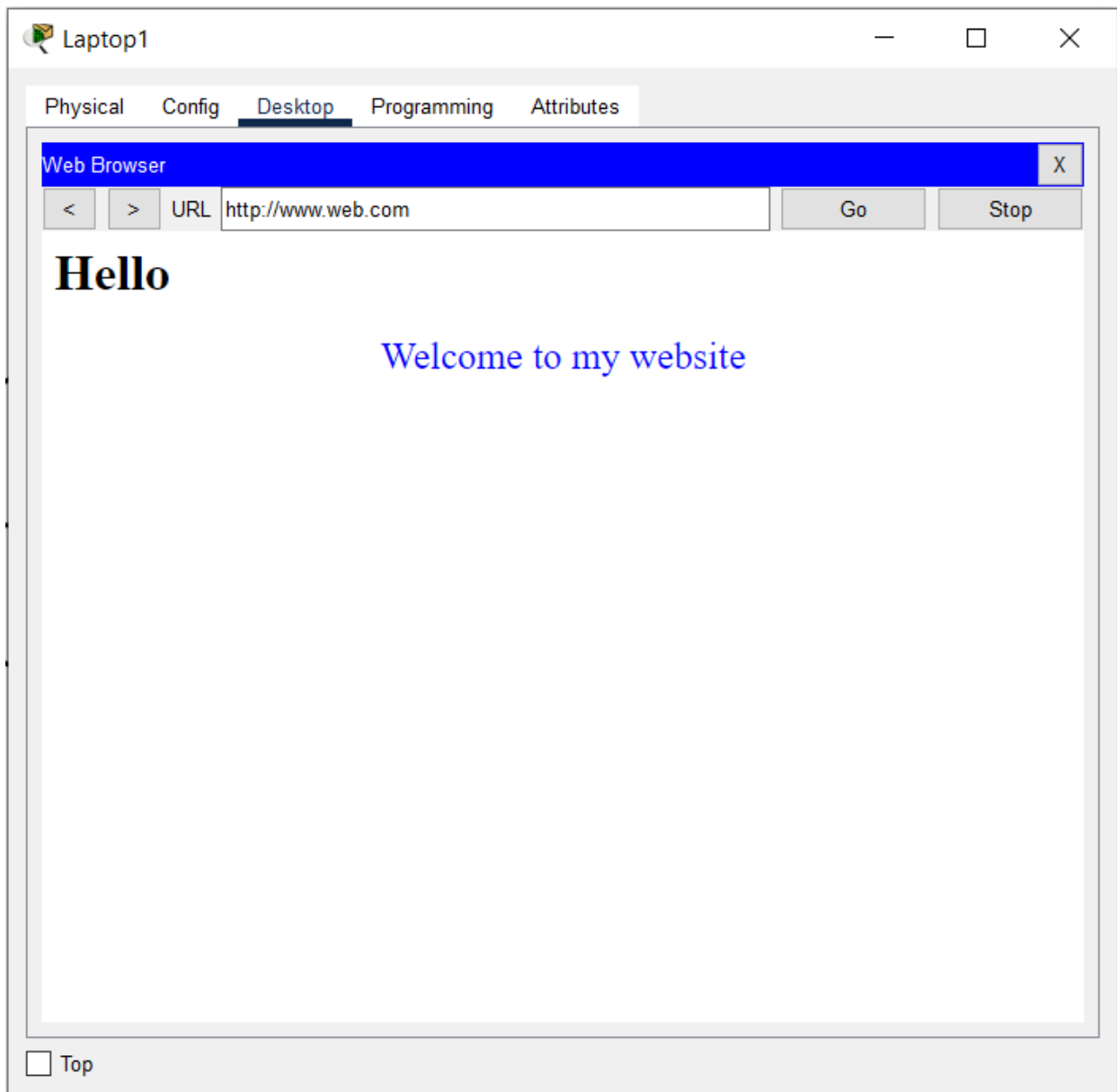
New File

Import

☐ Top



iv) Now enter the DNS you entered in the DNS server of the web browser.



Results: DHCP, DNS and WEB (HTTP) works together to get the internet going well.

Dr. P. K. Kharat

(Course Teacher)