

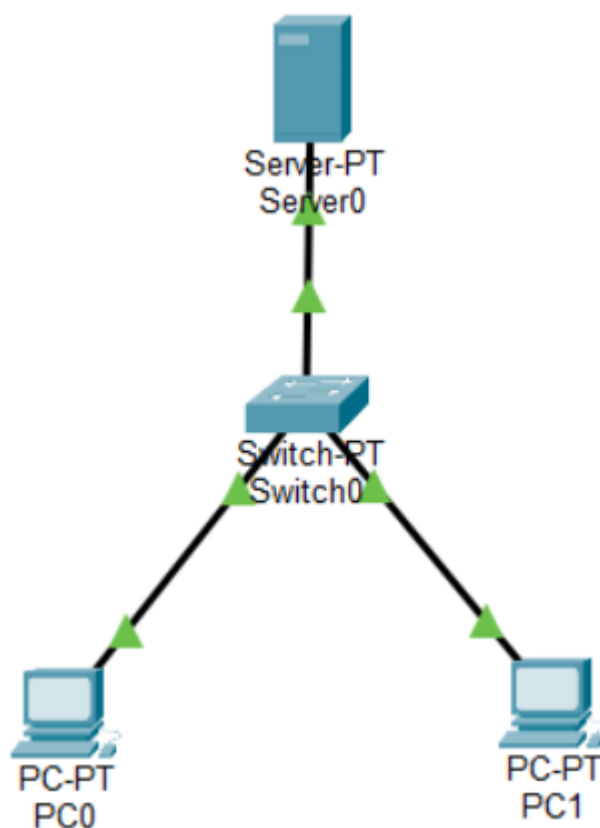
Q. Demonstrate HTTP Server in Packet Tracer.

Aim: To configure a web server and test web page access from clients using web browsers.

Steps:

1. In packet tracer place 1 Server-PT and 2 PC-PT and 1 Switch.
2. Connect Server-PT with Switch via FastEthernet0 using straight-through copper cord.
3. Connect PC-PT0 and PC-PT1 with Switch via FastEthernet0 using straight-through copper cords.
4. Set the IP address of Server-PT and both PCs in IP configuration.
5. Configure HTTP service on Server-PT and create web pages.
6. Test web access from both PCs.

Topology:



Code:

Server-PT Configuration:

IP Address: 192.168.1.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

HTTP Service Configuration:

HTTP Service: ON

Created web pages: index.html, about.html, courses.html

Web Page Code:

index.html:

```
html
<!DOCTYPE html>
<html>
<head>
<title>My College Website</title>
</head>
<body>
<h1>Welcome to College Server</h1>
<p>This website is hosted on Server-PT in Packet Tracer.</p>
<a href="about.html">About College</a> |
<a href="courses.html">Courses</a>
</body>
</html>
```

about.html:

```
html
<!DOCTYPE html>
<html>
<head>
<title>About Our College</title>
</head>
<body>
<h1>About Our Institution</h1>
<p>Established in 1990, we provide quality technical education.</p>
<p><b>Departments:</b> Computer, IT, Electronics, Mechanical</p>
<a href="index.html">Home</a> |
<a href="courses.html">Our Courses</a>
</body>
</html>
```

courses.html:

```
html
<!DOCTYPE html>
<html>
<head>
<title>College Courses</title>
</head>
<body>
<h1>Available Courses</h1>
<ul>
<li>Computer Engineering</li>
<li>Information Technology</li>
```

```
</li>Electronics & Telecommunication</li>
<li>Mechanical Engineering</li>
</ul>
<a href="index.html">Home</a> |
<a href="about.html">About College</a>
</body>
</html>
```

PC-PT0 Configuration:

IP Address: 192.168.1.20

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

PC-PT1 Configuration:

IP Address: 192.168.1.30

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

Verification: In Both PCs Web Browser

PC-PT0:

Open Web Browser

Enter URL: http://192.168.1.10

Enter URL: http://192.168.1.10/about.html

Enter URL: http://192.168.1.10/courses.html

PC-PT1:

Open Web Browser

Enter URL: http://192.168.1.10

Enter URL: http://192.168.1.10/about.html

Enter URL: http://192.168.1.10/courses.html

Connectivity Test:

C:\>ping 192.168.1.10

Output:

Ping Test Results:

Pc0 :

```
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=8ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 8ms, Average = 2ms
```

Pc1 :

```
C:\>ping 192.168.1.10

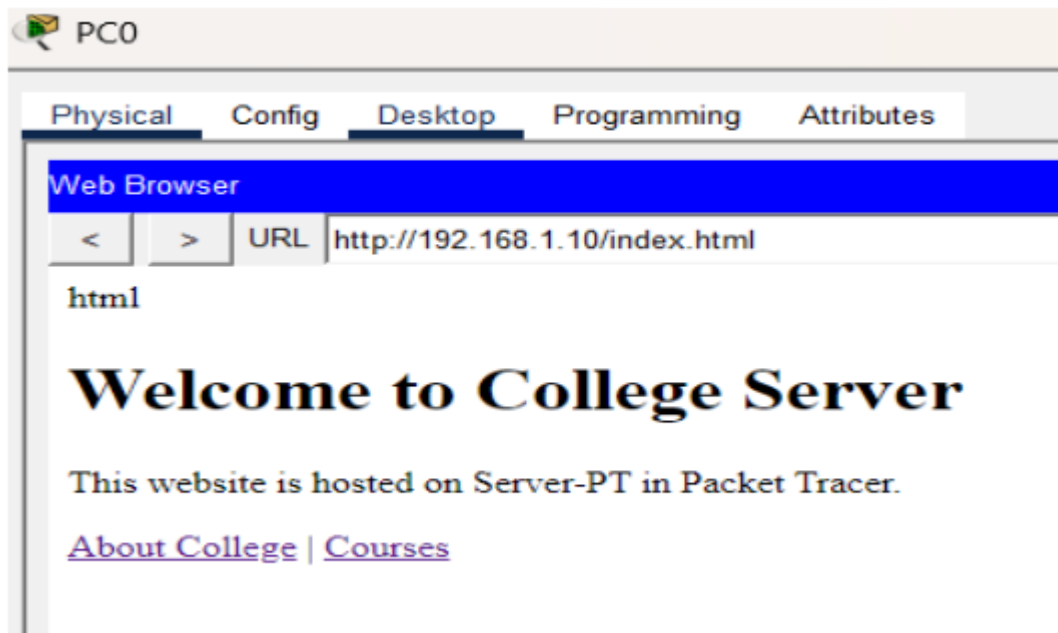
Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128

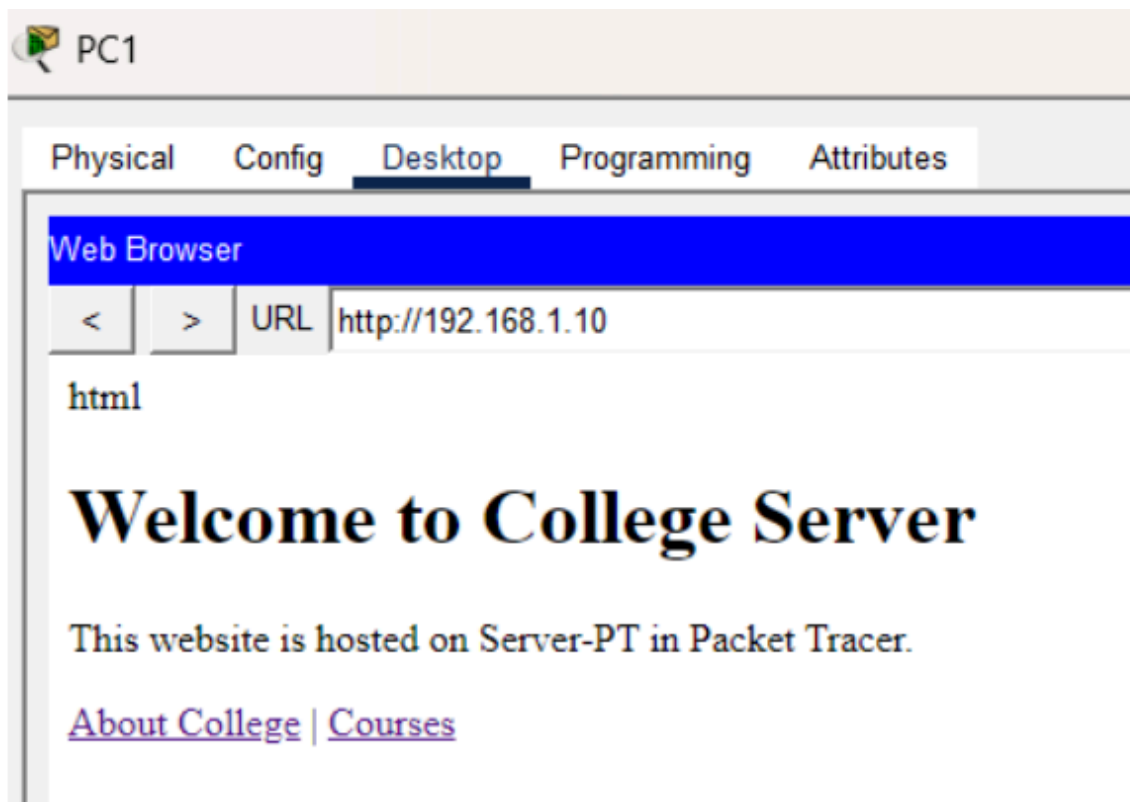
Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Web Browser Output:

Homepage (<http://192.168.1.10>): Pc0 :

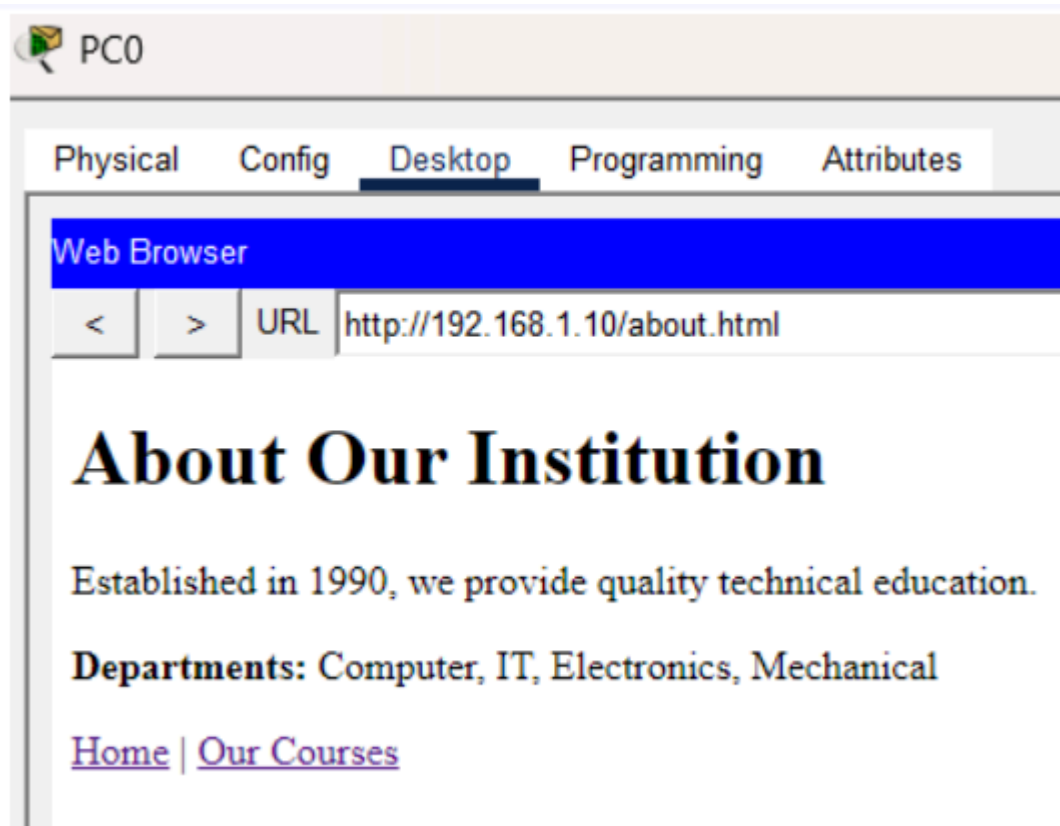


Pc1 :

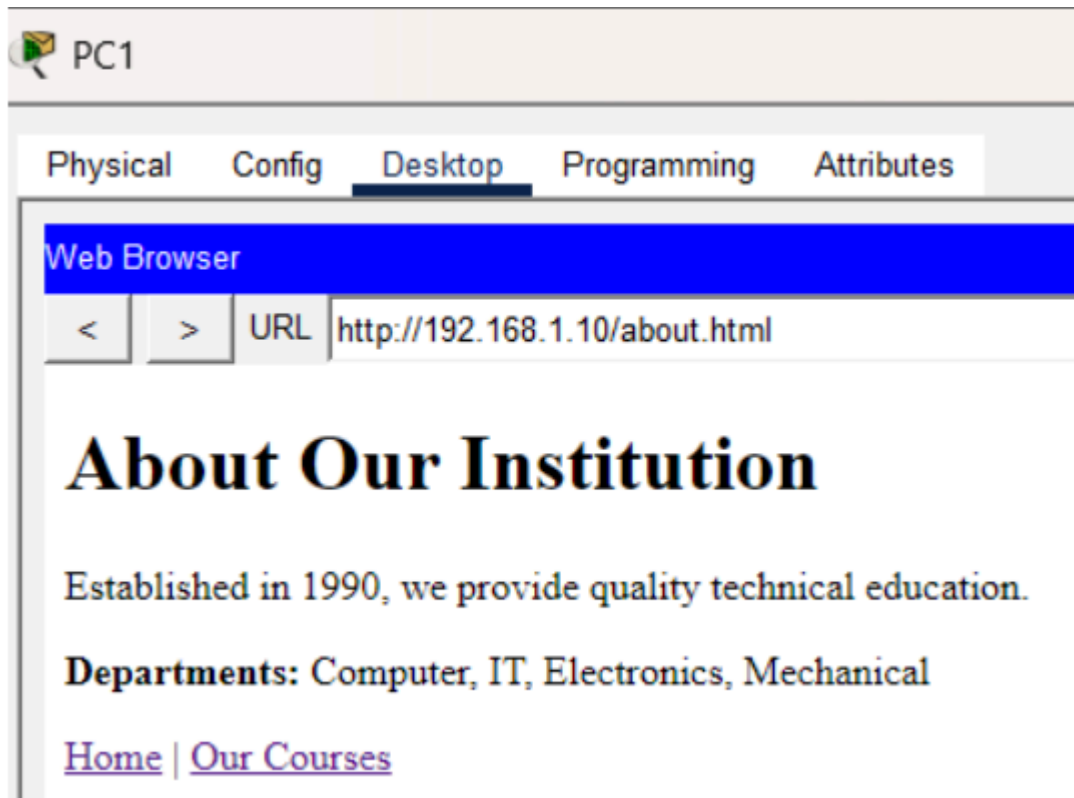


About Page (http://192.168.1.10/about.html):

Pc0 :

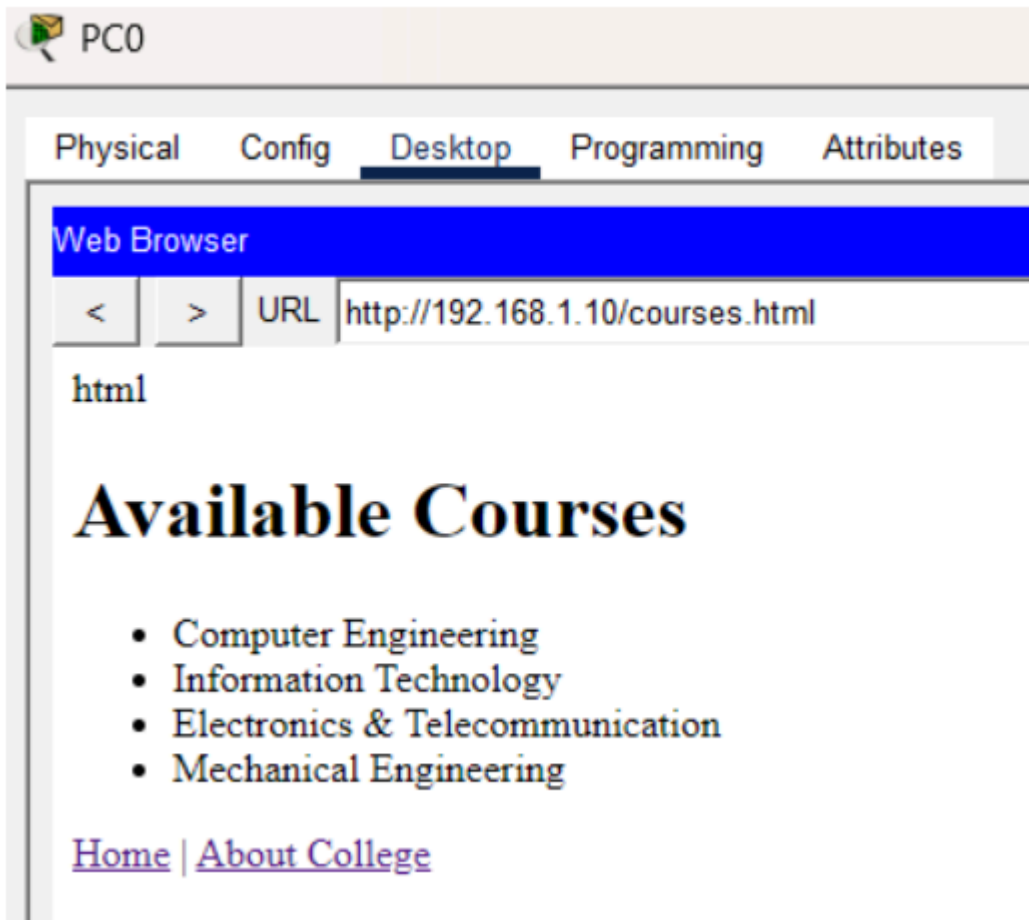


Pc1 :

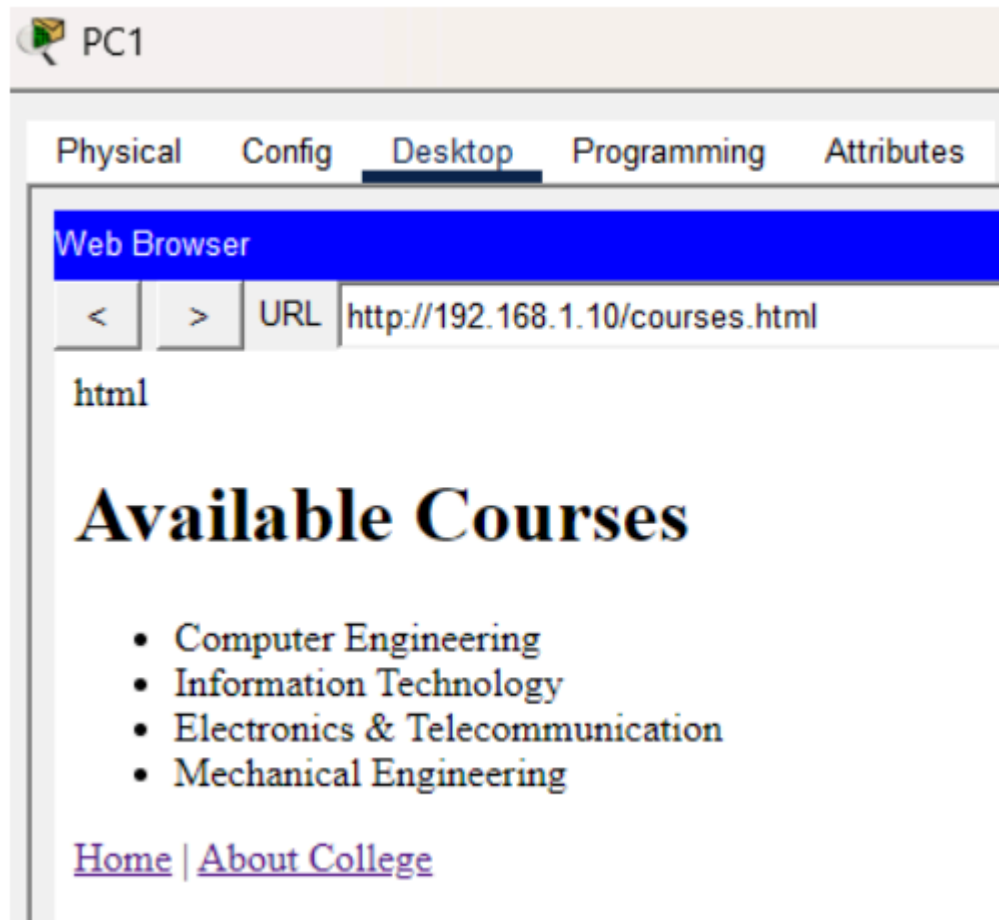


Courses Page (<http://192.168.1.10/courses.html>):

Pc0 :



Pc1 :



Conclusion: The HTTP web server has been configured successfully on Server-PT.