# **Department of Computer Science and Engineering Islamic University of Technology (IUT)** A subsidiary organ of OIC

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# **Laboratory Report**

# CSE 4412 : Data Communication and Networking Lab

## Lab 2

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### **Title:** Understanding the basics of OSI layers.

### **Objective**:

1. Use the cisco packet tracer simulator to observe HTTP events..
2. Use the event details to check different tasks at different layers,

### **Devices/ software Used**:

1. Cisco Packet Tracer

### **Working Procedure:**

Following steps are taken to complete the Experiment :

1. Connected a web client to a web server.

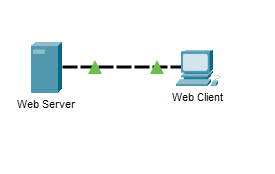
2. On the web browser of the web client, typed “[www.osi.layer](http://www.osi.layer)” and hit go.

3. Went to the simulation mode and edited the filters(only selected htttp).

4. Then I saw each http one by one.

5. In the event info, saw the http layers and note down the http events.

### **Diagram of the experiment:**

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### **Observation**:

At the time of exploring the contents of HTTP packets from the event list, I observed there are four HTTP events taking place. I found notable findings in each of the event and explanation of the findings are listed below: (see the PT Activity window and answer the questions noted there in respective events)

#### **1st HTTP Event: The HTTP client sends a HTTP request to the server.**

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#### **2nd HTTP Event:The server sends back a HTTP reply to the client.**

#### **3rd HTTP Event: The server sends back a HTTP reply to the client.**

#### **4th HTTP Event:The HTTP client receives a HTTP reply from the server. It displays the page in the web browser.**

### **Challenges:**

1. Logging into the cisco netacad account was difficult.
2. Couldn’t find the needed events if I did not edit the filter list.
3. Had to know which layer http resides in.