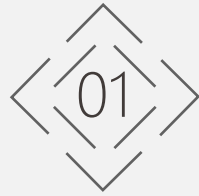




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Week 3 – Lab 2

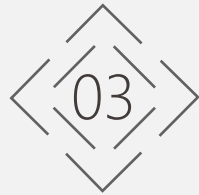
D I R



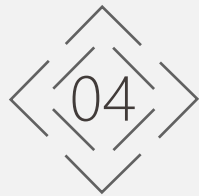
Report submission



Week 2 Quick Review



Lab 2 - 101



Q&A

Report Submission

Clear

Answer
the question directly.

Effort

Show your efforts even
you are not sure about
the answer.

Format

Make the format
(font/images/tables)
consistent.

1. Do the submission via VLabs, and double check if you can open it. (demo)
2. Tar the file instead of zip it.



Week 2~3 QUICK REVIEW

1. HTTP – What is Request and Response?
2. HTTP – Status code and Headers

LAB 2 - 101

Exercise 1 – 2 (unmarked)

- What is telnet protocol?
- What is cookies?

Exercise 3-4 Wireshark 101

- Installation
- basic operation
 - Open trace file
 - Filter
- HTTP stuff
 1. status code
 2. last modified/if-modified/e-tag
 3. persistent
 4. Data

LAB 2 - 101

Exercise 5

- Socket programming basics
- How to run the scripts
- Example code of client.py

```
import socket
import sys

print("userinput param:" , sys.argv) # todo: read this into the program at

for i in range(10):
    addr = ('127.0.0.1', 8888)

    # init an object that can send UDP packets (ping command use UDP)
    sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)

    # message content
    msg = "Hello Rui 222"

    # send to the server
    # --> t1
    sock.sendto(msg.encode(), addr)

    # receive the reply
    sock.settimeout(1) # timeout = 1 sec
    try:
        # todo add more code in here --> calculate the RTT
        response = sock.recv(1024) # get the response

        # --> t2
        # RTT = t2 - t1

        print(f"{i} get the response from the server!")
    except: # todo add some thing here to catch it
        print(f"{i} timeout! no response from the serverside!")

    # todo --> calculate avg RTT

# close the socket
sock.close()
```



Q&A

Where is the slides/recording/demo codes?

- https://github.com/lrlrlrlr/COMP3331_9331_22T3_Labs

No experience on socket programming?

- This is all good, this course is beginner friendly. You just need to have python/java basics. We will have lots of help session on the programming part!!

Any other questions? Feel free to ask!



THANKS

Rui