

## COMP2322 Computer Networking Spring 2024

# Lab 04 Socket Programming

## Student:

Wang Ruijie 22103808D

Department of Computing
The Hong Kong Polytechnic University

#### **Question 1** The output of the program is as follows:

Apple@Ruijies-Macbook-Pro Labs & cd /Users/Apple/Library/CloudStorage/OneDrive-ThethongKongPolytechnicUniversity/COMP2322\ Computer\ N etworking/Labs; /user/bin/nev/usr/local/bin/python3 /Users/Apple/Library/CloudStorage/OneDrive-ThethongKongPolytechnicUniversity/COMP2: debugpy/adapter/../../debugpy/launcher 64179 — /Users/Apple/Library/CloudStorage/OneDrive-ThethongKongPolytechnicUniversity/COMP2: 22\ Computer\ Networking/Labs/lab4.py
socket successfully created
the socket has successfully connected to annote

### **Question 2** The outputs of the two programs:

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4server.py socket successfully created socket binded to 12345 socket is listening got connection from ('127.0.0.1', 64496)

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4client.py from server: thank you for connecting

### **Question 3** The output of the processes:

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4server.py socket successfully created socket binded to 43808 socket is listening got connection from ('127.0.0.1', 64771)

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4client.py TCP connection established between:
Source IP: 127.0.0.1
Source port: 64771
Destination IP: 127.0.0.1
Destination port: 43808

from server: thank you for connecting

## **Question 4** The output of the processes:

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4server.py socket successfully created socket binded to 43808 socket is listening got connection from ('127.0.0.1', 64811)

Apple@Ruijies-Macbook-Pro Desktop % python3 lab4client.py TCP connection established between:
Source IP: 127.0.0.1
Source port: 64811
Destination IP: 127.0.0.1
Destination port: 43808
from server: thank you for connecting
Enter the 5-digit password: 03808
From server: Your password is correct!