

CMPUT 404 Lab 2 Answers

Question 1: How do you specify a TCP socket in Python?

```
serverSocket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
```

AF_INET indicates an internet socket, and SOCK_STREAM indicates TCP

Question 2: What is the difference between a client socket and a server socket in Python?

For the client socket we issue .connect, for the server socket, .bind .listen and .accept

Question 3: How do we instruct the OS to let us reuse the same bind port?

```
serverSocket.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
```

Question 4: What information do we get about incoming connections?

Originating IP address and port number.

Question 5: What is returned by recv() from the server after it is done sending the HTTP request?

Empty, zero-length string: ""