Lab 1 - Web Server Report

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Implementation Summary

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Key Functions and their Behaviors

Preparing the Server Socket

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

- the `socket()` function instantiates our socket object for the lab which will use the necessary methods summarized below to establish the socket connection on the server side.
- the `AF_INET` argument specifies that the socket will use IPv4.
- the `SOCK_STREAM` argument specifies that the socket will use the TCP transport protocol for message transmission.

```
serverSocket.bind(SERVER_ADDR, SERVER_PORT)
```

- the `bind()` function links the socket address—*composed of the server's network address and the web server's port number*—to the socket object.

```
serverSocket.listen()
```

- the `listen()` function simply allows the web server to accept incoming connections to the socket.

Establishing the Connection

Validation Evidence

Attribution

[Socket Programming in Python (Guide) – Real Python](#)