

# Computer Networks Lab Assessment

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HTTP Server:

Code:

```
#Server.py - 21MIS1146
from http.server import BaseHTTPRequestHandler, HTTPServer

class MessageHandler(BaseHTTPRequestHandler):
    def do_POST(self):
        content_length = int(self.headers['Content-Length'])
        message = self.rfile.read(content_length).decode('utf-8')

        self.send_response(200)
        self.send_header('Content-type', 'text/plain')
        self.end_headers()

        response = f"Received message: {message}"
        self.wfile.write(response.encode('utf-8'))

def run_server():
    server_address = ('', 8000)
    httpd = HTTPServer(server_address, MessageHandler)
    print("Server started on port 8000.")
    httpd.serve_forever()

if __name__ == '__main__':
    run_server()
```

```
#Client.py - 21MIS1146

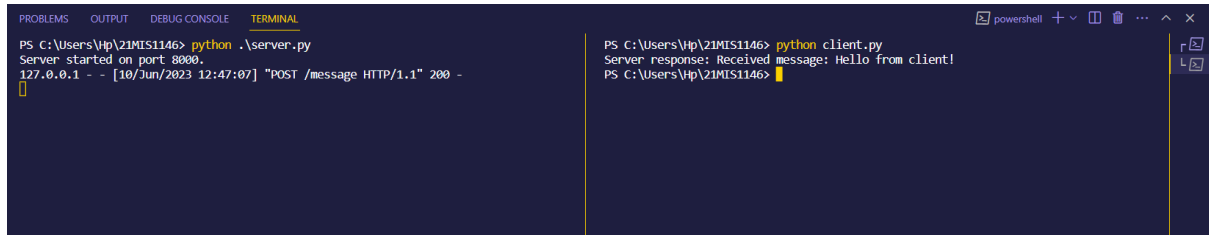
import urllib.request

def send_message(url, message):
    data = message.encode('utf-8')
    req = urllib.request.Request(url, data=data, method='POST')
    with urllib.request.urlopen(req) as response:
        response_data = response.read().decode('utf-8')
        print("Server response:", response_data)

if __name__ == '__main__':
```

```
send_message('http://localhost:8000/message', 'Hello from client!')
```

Output:



The screenshot shows a VS Code terminal window with two panes. The left pane shows the output of a Python server script, and the right pane shows the output of a Python client script. The server script is named `server.py` and the client script is named `client.py`. The server script starts on port 8000 and receives a POST request from `127.0.0.1` at `10/Jun/2023 12:47:07`. The client script sends a message `Hello from client!` to the server.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\Hp\21MIS1146> python .\server.py
Server started on port 8000.
127.0.0.1 - - [10/Jun/2023 12:47:07] "POST /message HTTP/1.1" 200 -
PS C:\Users\Hp\21MIS1146> python client.py
Server response: Received message: Hello from client!
PS C:\Users\Hp\21MIS1146>
```