Main.py

```python
import socket
import threading

remote_host = 'www.google.com'
remote_port = 80

def handle_request(client_conn):
    try:
        request_data = client_conn.recv(4096)

        remote_conn = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        try:
            remote_conn.connect((remote_host, remote_port))
        except socket.error as e:
            print(f'Could not connect to {remote_host}:{remote_port} - {e}')
            return

        remote_conn.sendall(request_data)

        response_data = remote_conn.recv(4096)
        client_conn.sendall(response_data)

        remote_conn.close()
    except Exception as e:
        print(f'Error: {e}')
    finally:
        client_conn.close()

def main():
    proxy_host = '127.0.0.1'
    proxy_port = 8888

    server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    server.bind((proxy_host, proxy_port))
    server.listen(5)

    print(f'Proxy server listening on {proxy_host}:{proxy_port}')

    while True:
        client_conn, client_addr = server.accept()
        print(f'Accepted connection from {client_addr}')
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
            <title>404 - Not Found</title>
        </head>
        <body>
            <h1>404 - Not Found</h1>
        </body>
</html>
alejandrosandoval@iMac httpProxy % curl http://127.0.0.1:8888
<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
        <head>
            <title>404 - Not Found</title>
        </head>
        <body>
            <h1>404 - Not Found</h1>
        </body>
</html>
alejandrosandoval@iMac httpProxy % curl http://127.0.0.1:8888
<HTML><HEAD><meta http-equiv="content-type" content="text/html;charset=utf-8">
<TITLE>301 Moved</TITLE></HEAD><BODY>
<H1>301 Moved</H1>
The document has moved
<A HREF="http://www.google.com:8888/">here</A>.
</BODY></HTML>
alejandrosandoval@iMac httpProxy %
```

```
/opt/local/bin/python3.11 /Users/alejandrosandoval/Desktop/httpProxy/Main.py
alejandrosandoval@iMac httpProxy % /opt/local/bin/python3.11 /Users/alejandrosandoval/Desktop/httpProxy/Main.py
Proxy server listening on 127.0.0.1:8888
Accepted connection from ('127.0.0.1', 60219)
```

main* 1 0 0 Ln 4, Col 26 Spaces: 4 UTF-8 LF Python 3.11.1 64-bit