```
PS D:\Education\371> python ProxyServer.py localhost
Ready to serve...
('Received a connection from:', ('127.0.0.1', 61503))
GET /www.washington.edu HTTP/1.1
Host: localhost:8888
Connection: keep-alive
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3770.142 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9


/www.washington.edu
www.washington.edu
/www.washington.edu
washington.edu
Ready to serve...
('Received a connection from:', ('127.0.0.1', 61504))
GET /favicon.ico HTTP/1.1
Host: localhost:8888
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3770.142 Safari/537.36
Accept: image/webp,image/apng,image/*,*/*;q=0.8
Referer: http://localhost:8888/www.washington.edu
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
Cookie: _ga=GA1.1.1770145843.1564551818; _gid=GA1.1.1701048930.1564551818; _gat=1


/favicon.ico
favicon.ico
/favicon.ico
favicon.ico
Illegal request
[Errno 11001] getaddrinfo failed
Ready to serve...
('Received a connection from:', ('127.0.0.1', 61517))
GET /favicon.ico HTTP/1.1
Host: localhost:8888
Connection: keep-alive
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3770.142 Safari/537.36
Accept: image/webp,image/apng,image/*,*/*;q=0.8
Referer: http://localhost:8888/www.washington.edu
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
Cookie: _ga=GA1.1.1770145843.1564551818; _gid=GA1.1.1701048930.1564551818; _gat=1


/favicon.ico
favicon.ico
/favicon.ico
favicon.ico
Illegal request
[Errno 11001] getaddrinfo failed
```
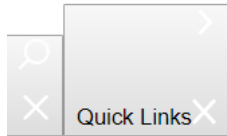
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```
ww.wikipedia.org
ww.wikipedia.org
ww.wikipedia.org
ikipedia.org
eady to serve...
'Received a connection from:', ('127.0.0.1', 62381))
```

I found one error when I tried ww.Baidu.com it was like:

```
/www.Baidu.com
www.Baidu.com
/www.Baidu.com
Baidu.com
Illegal request
[Errno 10054] An existing connection was forcibly cl
Ready to serve...
('Received a connection from:', ('127.0.0.1', 62178)

Traceback (most recent call last):
```

I have tried www.sfu.ca several times and it only went in one and all the rest of the time it gave a error that no other site gave:

```
'Received a connection from:', ('127.0.0.1', 62381

Traceback (most recent call last):
  File "ProxyServer.py", line 32, in <module>
    print message.split()[1]
IndexError: list index out of range
```

I found one error 400: Bad request.

In short Proxyserver is acting as a secondary server for server. When a client makes a request, first it searches the proxyserver if it finds the requested object then it returns it or otherwise proxyserver forwards the request to server and when server sends in the requested item proxyserver caches that file for future use. We use cache in between client and server to speed up the request and not any other method because it is cheap.