

Connection establishment

```
127.0.0.1 wrote:
1 0 5 0 0 None
received synbit: 1
received ackbit: 0
received seqnum: 5
received acknum: 0
sending message to acknowledge connection from client
SYNbit: 1
ACKbit: 1
SEQnum: 10
ACKnum: 6
message: None
127.0.0.1 wrote:
0 1 6 11 0 0 None
received message:
-----
SYNbit: 0
ACKbit: 1
SEQnum: 6
ACKnum: 11
FINbit: 0
checksum: 0
message: None
-----
Connection established
-----

Sent message to server to establish connection
SYNbit: 1
ACKbit: 0
SEQnum: 5
ACKnum: 0
FINbit: 0
-----
Received message:
SYNbit: 1
ACKbit: 1
SEQnum: 10
ACKnum: 6
-----
Sent message:
-----
SYNbit: 0
ACKbit: 1
SEQnum: 6
ACKnum: 11
FINbit: 0
checksum: 0
message: None
-----
Connection established
-----
```

Command Prompt - python server.py

```
Connection established
127.0.0.1 wrote:
0 0 7 11 0 1275 GET index.html
received message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 7
ACKnum: 11
FINbit: 0
checksum: 1275
message: GET index.html
-----
No error detected in checksum
GET command received
checksum: 2203
127.0.0.1 wrote:
0 0 8 11 0 1829 POST index.html hola
received message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 8
ACKnum: 11
FINbit: 0
checksum: 1829
message: POST index.html hola
-----
```

Command Prompt - python client.py

```
-----
Enter message: GET index.html
Sent message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 7
ACKnum: 11
FINbit: 0
checksum: 1275
message: GET index.html
-----
Window Size taken: 1, Window availability: 2
Received message:
-----
SYNbit: 0
ACKbit: 1
SEQnum: 11
ACKnum: 21
FINbit: 0
checksum: 2203
message: HTTP/1.0 200 OK ->
```

page opened

```

127.0.0.1 wrote:
0 0 8 11 0 1829 POST index.html hola
received message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 8
ACKnum: 11
FINbit: 0
checksum: 1829
message: POST index.html hola
-----
length of message: 35
No error detected in checksum
POST command received
File exists, sending 200 OK
127.0.0.1 wrote:
0 0 9 11 0 1829 POST index.html hola
received message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 9
ACKnum: 11
FINbit: 0
checksum: 1829
-----
-----
Enter message: POST index.html hola
Sent message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 8
ACKnum: 11
FINbit: 0
checksum: 1829
message: POST index.html hola
-----
Window Size taken: 1, Window availability: 2
Received message:
-----
SYNbit: 0
ACKbit: 1
SEQnum: 11
ACKnum: 28
FINbit: 0
checksum: 332
message: 200 OK
-----
-----

```



hola

Corruption:

```

Command Prompt - python server.py
checksum: 1829
message: P0ST index.html hola
-----
length of message: 35
Error detected in checksum
127.0.0.1 wrote:
0 0 9 11 0 1829 P0ST index.html hola
received message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 9
ACKnum: 11
FINbit: 0
checksum: 1829
message: P0ST index.html hola
-----
length of message: 35
Error detected in checksum
-----
Command Prompt - python client.py
page opened
-----
Enter message: POST index.html hola
Packet corrupted
Sent message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 9
ACKnum: 11
FINbit: 0
checksum: 1829
message: P0ST index.html hola
-----
Window Size taken: 1, Window availability: 2
Timeout occurred. Resending unacknowledged packets.
Resent message:
-----
SYNbit: 0
ACKbit: 0
SEQnum: 9
ACKnum: 11
FINbit: 0
checksum: 1829
message: P0ST index.html hola
-----
-----
Enter message:

```

