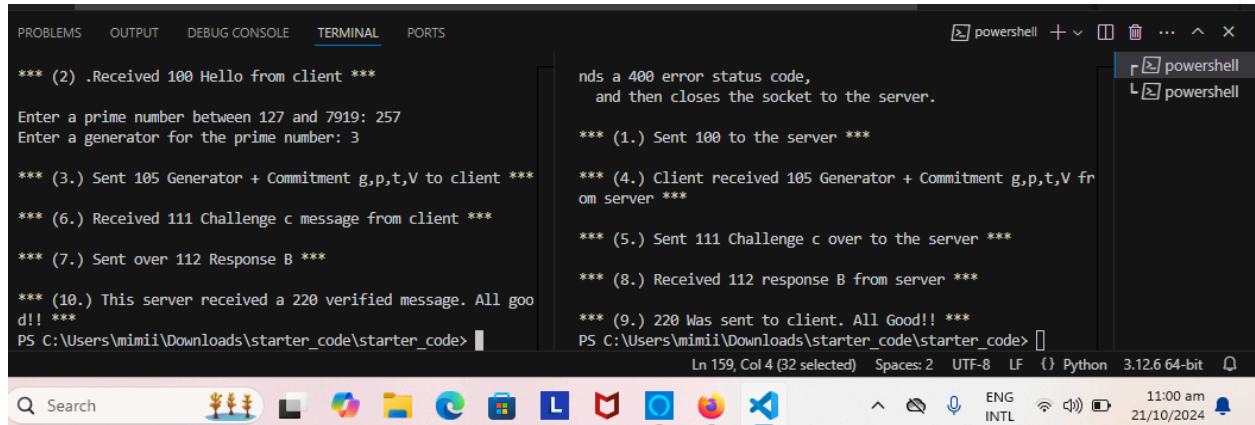


Test Cases

(3, 257)

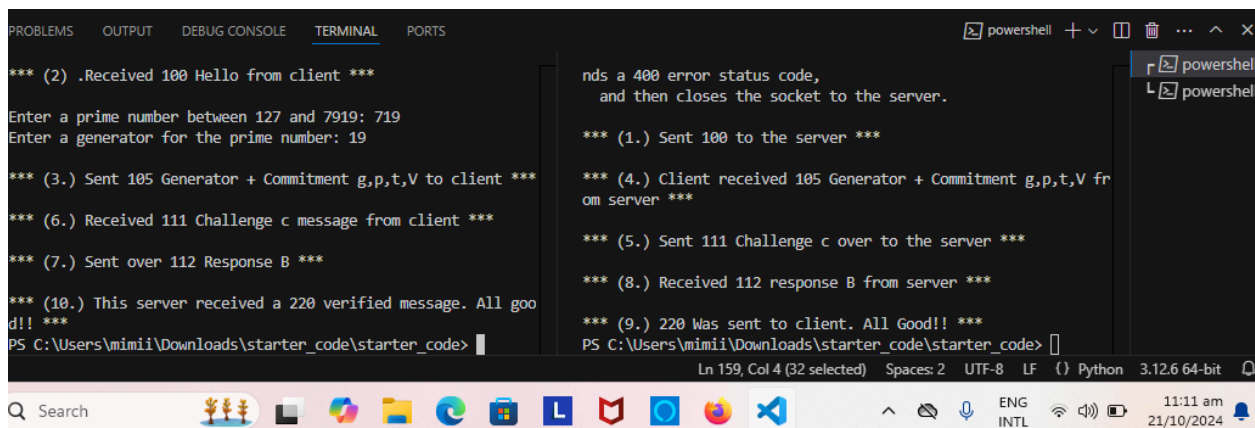


```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
*** (2) .Received 100 Hello from client ***
Enter a prime number between 127 and 7919: 257
Enter a generator for the prime number: 3
*** (3.) Sent 105 Generator + Commitment g,p,t,V to client ***
*** (6.) Received 111 Challenge c message from client ***
*** (7.) Sent over 112 Response B ***
*** (10.) This server received a 220 verified message. All good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

nds a 400 error status code,
and then closes the socket to the server.
*** (1.) Sent 100 to the server ***
*** (4.) Client received 105 Generator + Commitment g,p,t,V from server ***
*** (5.) Sent 111 Challenge c over to the server ***
*** (8.) Received 112 response B from server ***
*** (9.) 220 Was sent to client. All Good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

Ln 159, Col 4 (32 selected) Spaces: 2 UTF-8 LF {} Python 3.12.6 64-bit
```

(19,719)



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
*** (2) .Received 100 Hello from client ***
Enter a prime number between 127 and 7919: 719
Enter a generator for the prime number: 19
*** (3.) Sent 105 Generator + Commitment g,p,t,V to client ***
*** (6.) Received 111 Challenge c message from client ***
*** (7.) Sent over 112 Response B ***
*** (10.) This server received a 220 verified message. All good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

nds a 400 error status code,
and then closes the socket to the server.
*** (1.) Sent 100 to the server ***
*** (4.) Client received 105 Generator + Commitment g,p,t,V from server ***
*** (5.) Sent 111 Challenge c over to the server ***
*** (8.) Received 112 response B from server ***
*** (9.) 220 Was sent to client. All Good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

Ln 159, Col 4 (32 selected) Spaces: 2 UTF-8 LF {} Python 3.12.6 64-bit
```

(5, 743)

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
*** (2) .Received 100 Hello from client ***
Enter a prime number between 127 and 7919: 743
Enter a generator for the prime number: 5
*** (3.) Sent 105 Generator + Commitment g,p,t,V to client ***
*** (6.) Received 111 Challenge c message from client ***
*** (7.) Sent over 112 Response B ***
*** (10.) This server received a 220 verified message. All good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

nds a 400 error status code,
and then closes the socket to the server.
*** (1.) Sent 100 to the server ***
*** (4.) Client received 105 Generator + Commitment g,p,t,V from server ***
*** (5.) Sent 111 Challenge c over to the server ***
*** (8.) Received 112 response B from server ***
*** (9.) 220 Was sent to client. All Good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

Ln 159, Col 4 (32 selected) Spaces: 2 UTF-8 LF ( ) Python 3.12.6 64-bit
```

(11, 769)

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
*** (2) .Received 100 Hello from client ***
Enter a prime number between 127 and 7919: 769
Enter a generator for the prime number: 11
*** (3.) Sent 105 Generator + Commitment g,p,t,V to client ***
*** (6.) Received 111 Challenge c message from client ***
*** (7.) Sent over 112 Response B ***
*** (10.) This server received a 220 verified message. All good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

nds a 400 error status code,
and then closes the socket to the server.
*** (1.) Sent 100 to the server ***
*** (4.) Client received 105 Generator + Commitment g,p,t,V from server ***
*** (5.) Sent 111 Challenge c over to the server ***
*** (8.) Received 112 response B from server ***
*** (9.) 220 Was sent to client. All Good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

Ln 159, Col 4 (32 selected) Spaces: 2 UTF-8 LF ( ) Python 3.12.6 64-bit
```

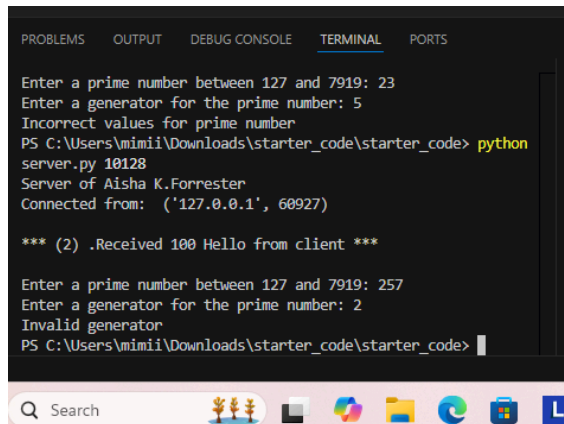
(5, 907)

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
*** (2) .Received 100 Hello from client ***
Enter a prime number between 127 and 7919: 907
Enter a generator for the prime number: 5
*** (3.) Sent 105 Generator + Commitment g,p,t,V to client ***
*** (6.) Received 111 Challenge c message from client ***
*** (7.) Sent over 112 Response B ***
*** (10.) This server received a 220 verified message. All good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

nds a 400 error status code,
and then closes the socket to the server.
*** (1.) Sent 100 to the server ***
*** (4.) Client received 105 Generator + Commitment g,p,t,V from server ***
*** (5.) Sent 111 Challenge c over to the server ***
*** (8.) Received 112 response B from server ***
*** (9.) 220 Was sent to client. All Good!! ***
PS C:\Users\mimii\Downloads\starter_code\starter_code>

Ln 159, Col 4 (32 selected) Spaces: 2 UTF-8 LF ( ) Python 3.12.6 64-bit
```

Testing for invalid generators



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter a prime number between 127 and 7919: 23
Enter a generator for the prime number: 5
Incorrect values for prime number
PS C:\Users\mimii\Downloads\starter_code\starter_code> python
server.py 10128
Server of Aisha K.Forrester
Connected from: ('127.0.0.1', 60927)

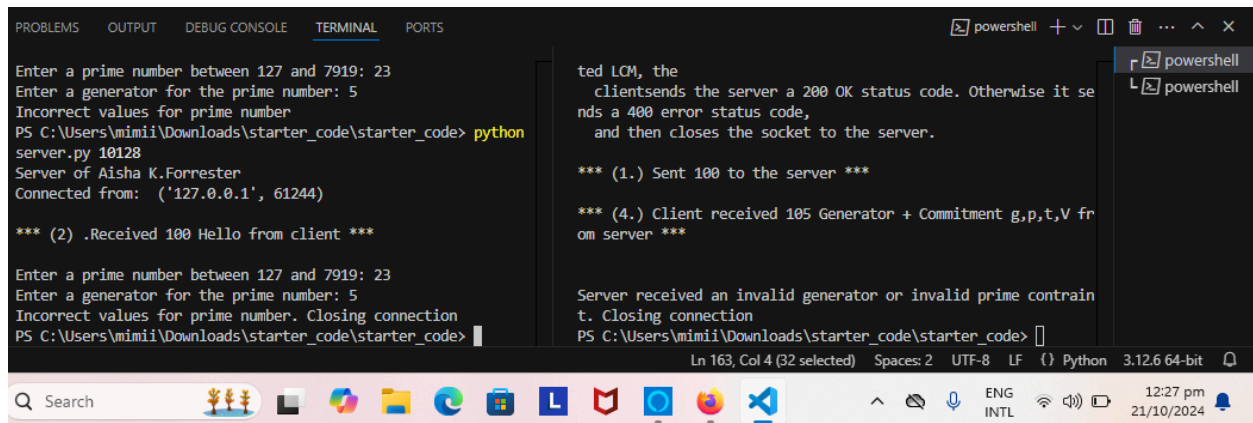
*** (2) .Received 100 Hello from client ***

Enter a prime number between 127 and 7919: 257
Enter a generator for the prime number: 2
Invalid generator
PS C:\Users\mimii\Downloads\starter_code\starter_code>
```

Generator = 2 (invalid) prime= 257

Testing for primes that do not fit the constraint($127 \leq p \leq 7919$) ie : (5,23), (5,47), (19,83)

(5,23)



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter a prime number between 127 and 7919: 23
Enter a generator for the prime number: 5
Incorrect values for prime number
PS C:\Users\mimii\Downloads\starter_code\starter_code> python
server.py 10128
Server of Aisha K.Forrester
Connected from: ('127.0.0.1', 61244)

*** (2) .Received 100 Hello from client ***

Enter a prime number between 127 and 7919: 23
Enter a generator for the prime number: 5
Incorrect values for prime number. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>
```

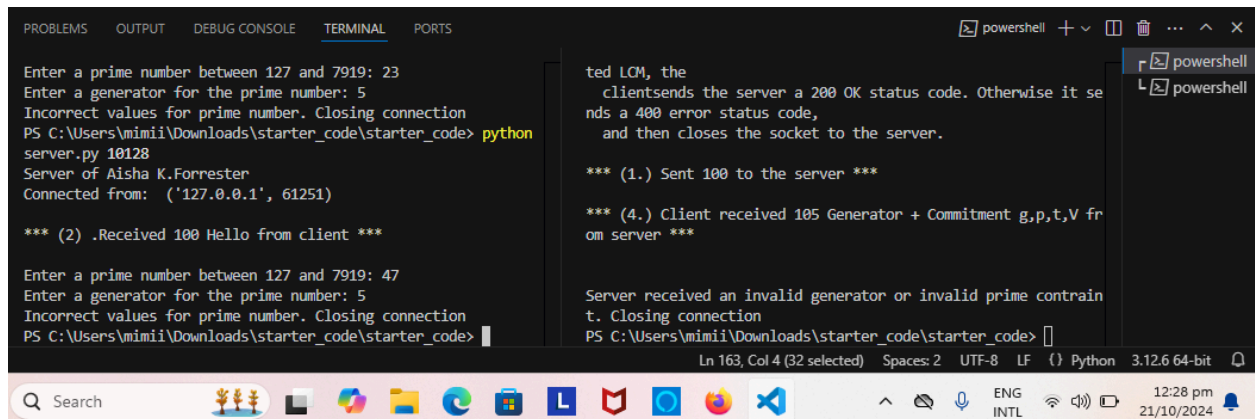
```
ted LCM, the
clientsends the server a 200 OK status code. Otherwise it se
nds a 400 error status code,
and then closes the socket to the server.

*** (1.) Sent 100 to the server ***

*** (4.) Client received 105 Generator + Commitment g,p,t,V fr
om server ***

Server received an invalid generator or invalid prime contrain
t. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>
```

(5,47)



```
Enter a prime number between 127 and 7919: 23
Enter a generator for the prime number: 5
Incorrect values for prime number. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code> python
server.py 10128
Server of Aisha K.Forrester
Connected from: ('127.0.0.1', 61251)

*** (2) .Received 100 Hello from client ***

Enter a prime number between 127 and 7919: 47
Enter a generator for the prime number: 5
Incorrect values for prime number. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>

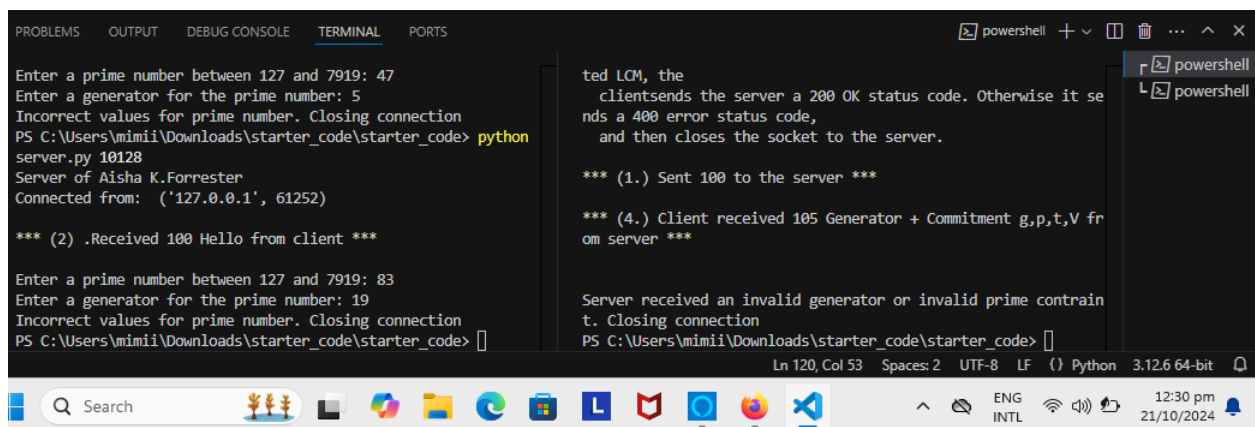
ted LCM, the
clientsends the server a 200 OK status code. Otherwise it se
nds a 400 error status code,
and then closes the socket to the server.

*** (1.) Sent 100 to the server ***

*** (4.) Client received 105 Generator + Commitment g,p,t,V fr
om server ***

Server received an invalid generator or invalid prime contrain
t. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>
```

(19,83)



```
Enter a prime number between 127 and 7919: 47
Enter a generator for the prime number: 5
Incorrect values for prime number. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code> python
server.py 10128
Server of Aisha K.Forrester
Connected from: ('127.0.0.1', 61252)

*** (2) .Received 100 Hello from client ***

Enter a prime number between 127 and 7919: 83
Enter a generator for the prime number: 19
Incorrect values for prime number. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>

ted LCM, the
clientsends the server a 200 OK status code. Otherwise it se
nds a 400 error status code,
and then closes the socket to the server.

*** (1.) Sent 100 to the server ***

*** (4.) Client received 105 Generator + Commitment g,p,t,V fr
om server ***

Server received an invalid generator or invalid prime contrain
t. Closing connection
PS C:\Users\mimii\Downloads\starter_code\starter_code>
```