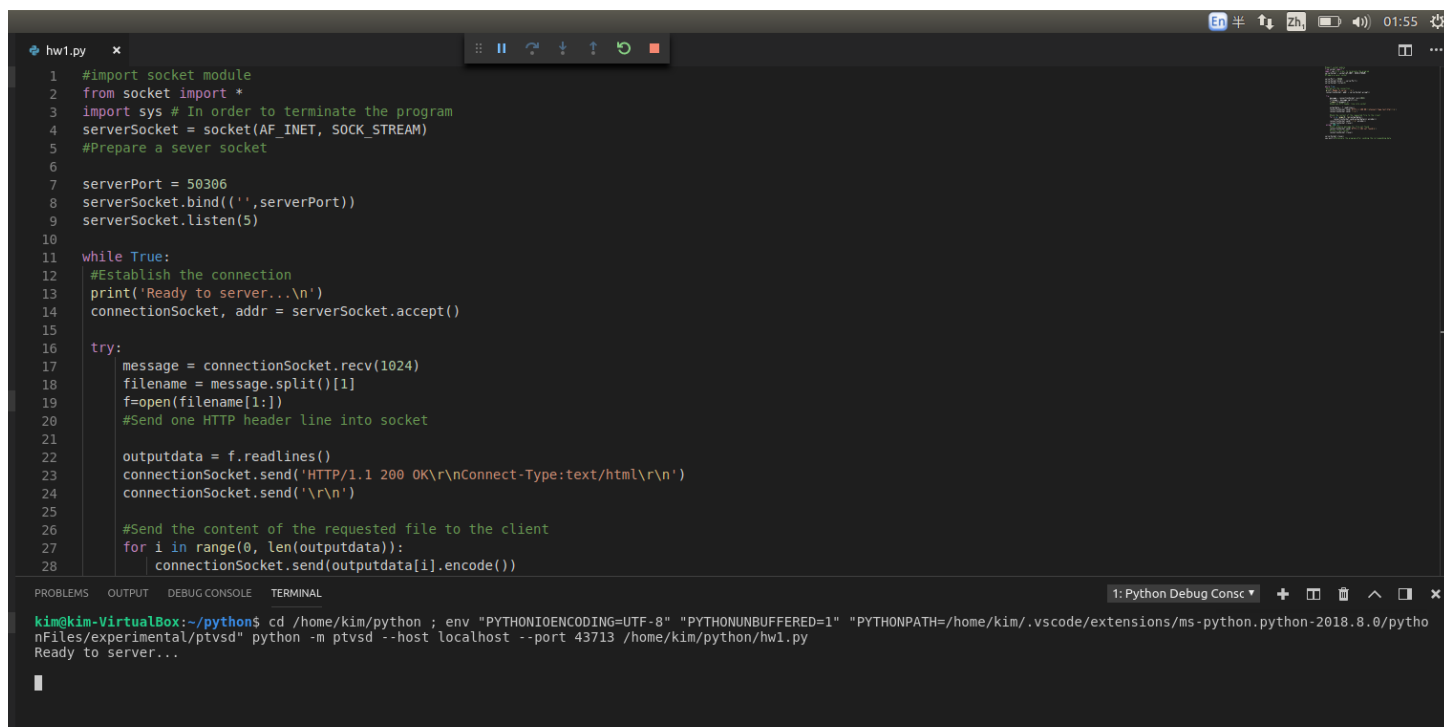


(1) 開啓程式，出現 ready to server...



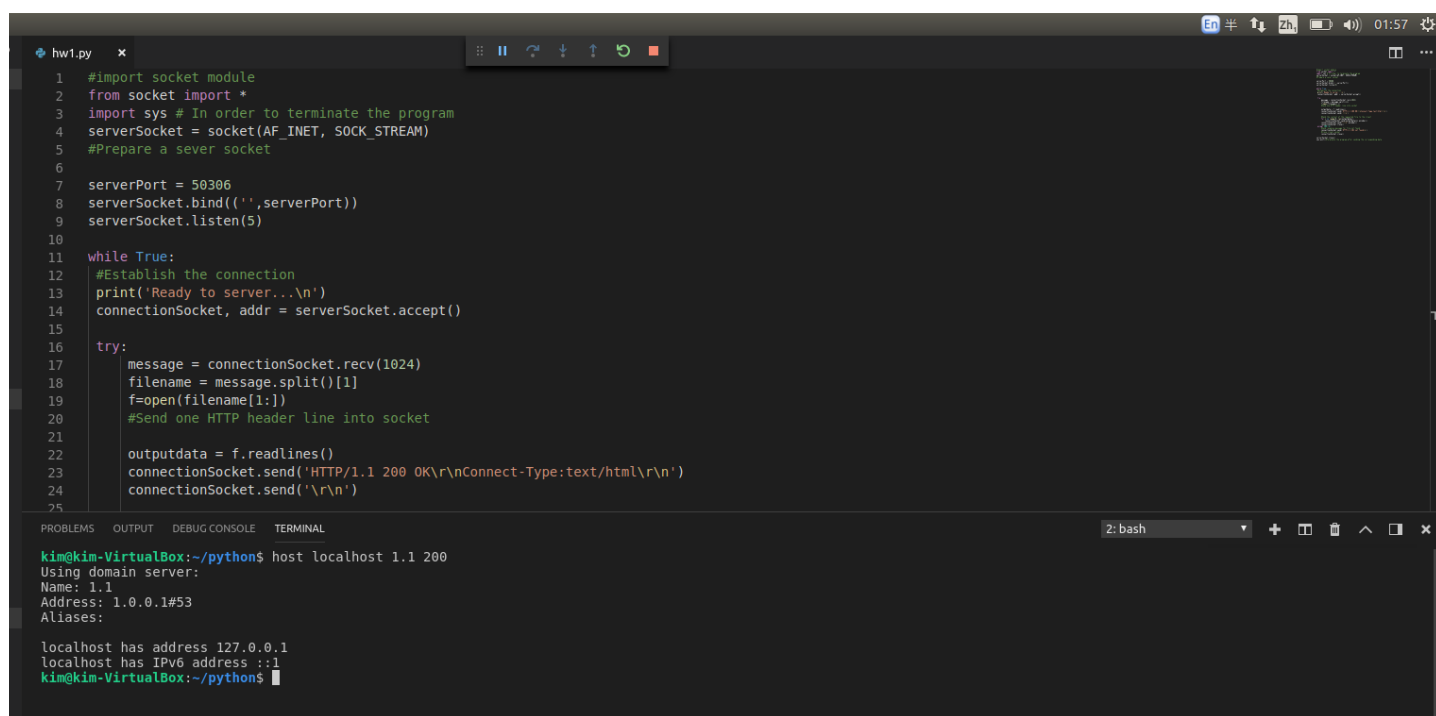
The screenshot shows a VS Code editor with a file named `hw1.py`. The code is a Python script that sets up a simple HTTP server. It imports the `socket` module, binds to `localhost` on port `50306`, and listens for connections. When a connection is accepted, it reads the request, sends an HTTP 200 OK response with a `Content-Type: text/html` header, and then sends the content of the requested file (if it exists) to the client.

```
1 #import socket module
2 from socket import *
3 import sys # In order to terminate the program
4 serverSocket = socket(AF_INET, SOCK_STREAM)
5 #Prepare a sever socket
6
7 serverPort = 50306
8 serverSocket.bind(('',serverPort))
9 serverSocket.listen(5)
10
11 while True:
12     #Establish the connection
13     print('Ready to server...\n')
14     connectionSocket, addr = serverSocket.accept()
15
16     try:
17         message = connectionSocket.recv(1024)
18         filename = message.split()[1]
19         f=open(filename[1:])
20         #Send one HTTP header line into socket
21
22         outputdata = f.readlines()
23         connectionSocket.send('HTTP/1.1 200 OK\r\nConnect-Type:text/html\r\n')
24         connectionSocket.send('\r\n')
25
26         #Send the content of the requested file to the client
27         for i in range(0, len(outputdata)):
28             connectionSocket.send(outputdata[i].encode())
```

The terminal output shows the command to run the script and the resulting output:

```
kim@kim-VirtualBox:~/python$ cd /home/kim/python ; env "PYTHONIOENCODING=UTF-8" "PYTHONUNBUFFERED=1" "PYTHONPATH=/home/kim/.vscode/extensions/ms-python.python-2018.8.0/pythonFiles/experimental/ptvsd" python -m ptvsd --host localhost --port 43713 /home/kim/python/hw1.py
Ready to server...
```

(2) 開啓另一個終端機，連上 server

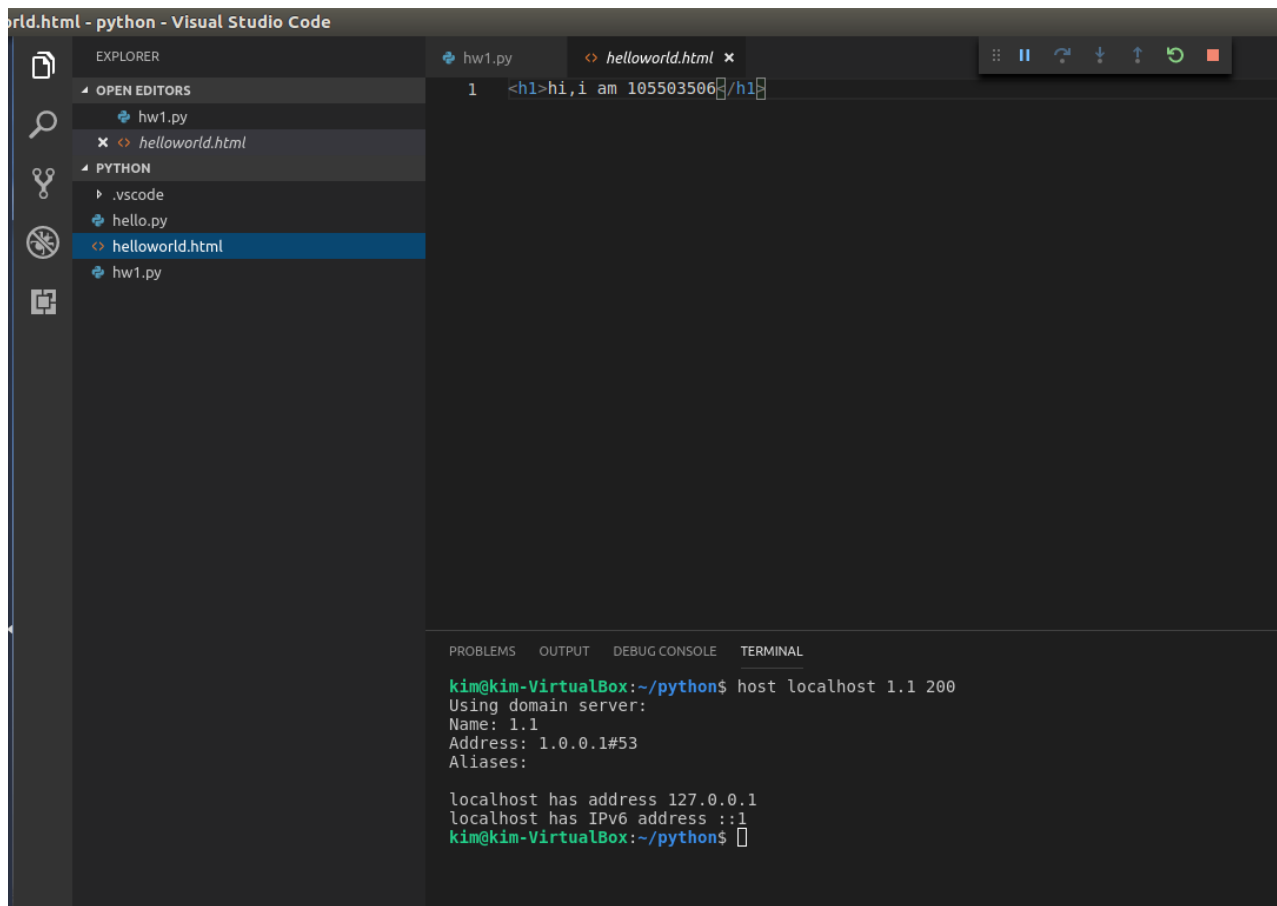


The screenshot shows the same VS Code editor with the `hw1.py` file. Below the editor, a terminal window is open, showing the command to run `curl` to connect to the server:

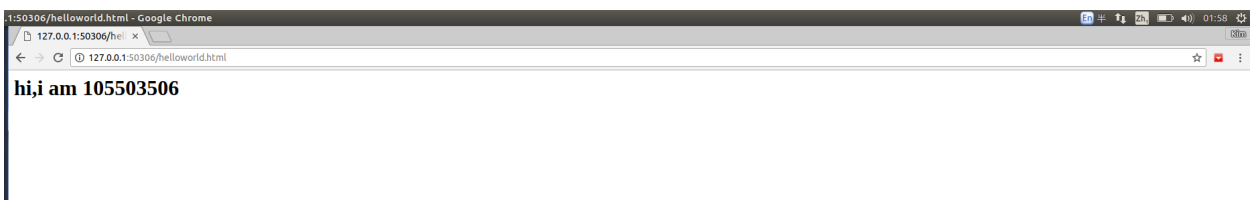
```
kim@kim-VirtualBox:~/python$ curl localhost 1.1 200
Using domain server:
Name: 1.1
Address: 1.0.0.1#53
Aliases:

localhost has address 127.0.0.1
localhost has IPv6 address ::1
kim@kim-VirtualBox:~/python$
```

### (3) 檔案 helloworld.html



### (4) client browser (http://127.0.0.1:50306/helloworld.html)



### (5) 404 not found(http://127.0.0.1:50306/helloworlddddd.html)

