

FTP Client PWD

Description:

You are tasked to implement an FTP client in Python that communicates with an FTP server via socket programming. This client supports basic FTP commands such as USER, PASS, PWD, and QUIT.

Input:

The input to your program will be a series of commands sent to the FTP server. These commands will simulate client-server interactions within unit tests. Note that you need to compress the command using zlib module before you send it.

Constraints:

- Commands and responses are ASCII encoded and end with `\r\n`. When you send commands, you need to compress them and when you received responses, you need to decompress them.

Output (with unit test)

```
connect called with call(('127.0.0.1', 2000))
```

```
recv called with call(1024)
```

```
257 "/mock/directory"
```

```
sendall called with
```

```
call(b'x\x9c\x0b\x08w\xe1\xe5\x02\x00\x03\xe1\x01\x03')
```

```
221 Goodbye
```

```
sendall called with
```

```
call(b'x\x9c\x0b\x0c\xf5\x0c\xe1\xe5\x02\x00\x05\xd9\x01[')
```

```
331 Username OK, need password
```

```
sendall called with call(b'x\x9c\x0b\r\nr(I-
```

```
\xe1\xe5\x02\x00\x14\xca\x037')
```