

Challenge 2

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This code is a Python script that sends a file to a server using the User Datagram Protocol (UDP) network protocol. It first creates a client socket and connects it to the server at the specified address.

The script prompts the user to input the name of the file to be sent, and uses the OS module to get the size of the file in bytes. It then sends the file size to the server as a string encoded in bytes.

Next, the script opens the file in binary mode and reads it in chunks of 1024 bytes. It sends each chunk to the server along with a block number to keep track of the chunks. The script waits for an acknowledgement message from the server before sending the next block of data.

If the user interrupts the script using the keyboard, the script closes the socket and terminates gracefully.

Finally, the script waits for a message from the server indicating the percentage of the file that has been received. Once the script receives the complete file, it prints a message indicating that the transfer has finished.