

5. Discussion: – The code consists of two main parts: the server program and the client program. The server program is responsible for handling client connections, providing services related to animal care, and communicating with the client. The client program connects to the server, sends requests for services, and interacts with the server. – The server program uses the `socket` module to create a server socket, listen for incoming connections, and communicate with clients over the network. – The server program also utilizes the `geopy.distance` module to calculate distances between geographical coordinates, the `requests` module to make API calls to retrieve geolocation data, and the `multiprocessing` module to handle multiple processes for printing information. – The client program uses the `socket` module to create a client socket, connect to the server, and send/receive data over the network. – The client program interacts with the server to request services related to animal care, such as finding the nearest veterinary clinic or store, connecting to a veterinary specialist for live chat, and providing information about pets. – The server and client programs exchange messages to provide and receive services, handle user choices, and maintain the client–server connection until the user decides to exit.