Program 2 :
Using UDP Socket

Program (Server):

```
import socket

def start_udp_server():
    server = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
    server.bind(('0.0.0.0', 9998))
    print("UDP Server listening on port 9998")

    while True:
        try:
            # Receive data from client
            data, addr = server.recvfrom(1024)
            data = data.decode('utf-8')
            print(f"Received from {addr}: {data}")

            # Extract operation and numbers
            operation, num1, num2 = data.split(',')
            num1 = float(num1)
            num2 = float(num2)

            # Perform the operation
            if operation == '+':
                result = num1 + num2
            elif operation == '-':
                result = num1 - num2
            elif operation == '*':
                result = num1 * num2
            elif operation == '/':
                if num2 != 0:
                    result = num1 / num2
                else:
                    result = "Error: Division by zero"
            else:
                result = "Error: Invalid operation"

            # Send result back to client
            server.sendto(str(result).encode('utf-8'), addr)

        except Exception as e:
            print(f"Error: {e}")

if __name__ == "__main__":
    start_udp_server()
```

Program (Client):

```
import socket

def start_udp_client():
    client = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
    server_address = ('127.0.0.1', 9998)  # Change IP to server's IP address

    while True:
        try:
            # Input operation and numbers
            operation = input("Enter operation (+, -, *, /): ")
            num1 = input("Enter first number: ")
            num2 = input("Enter second number: ")

            # Send operation and numbers to the server
            client.sendto(f"{operation},{num1},{num2}".encode('utf-8'), server_address)

            # Receive the result from the server
            data, addr = client.recvfrom(1024)
            print(f"Result: {data.decode('utf-8')}")

        except KeyboardInterrupt:
            print("Client disconnected")
            break
client.close()

if __name__ == "__main__":
    start_udp_client()
```

Output :