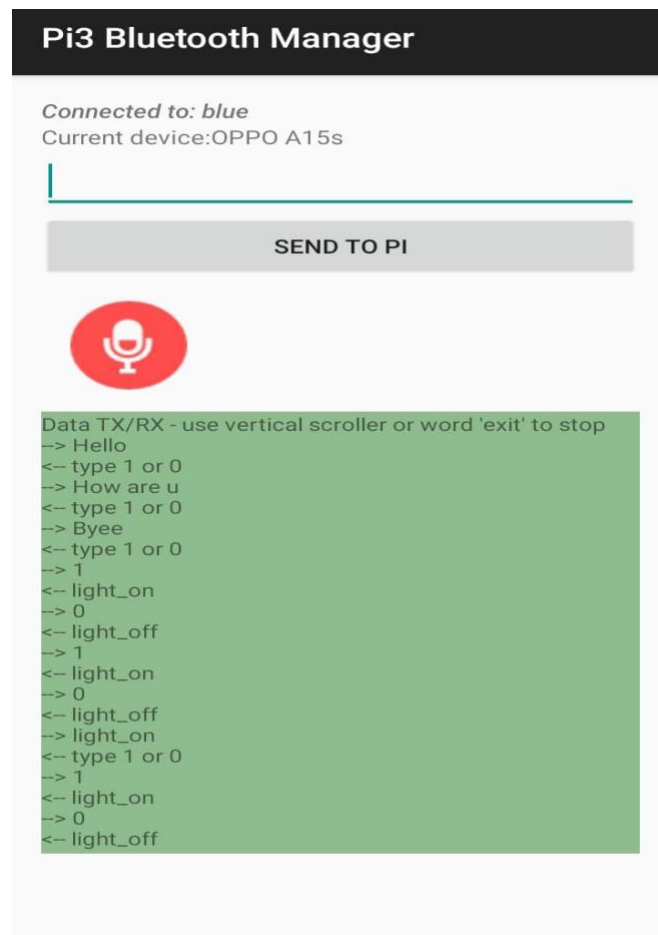
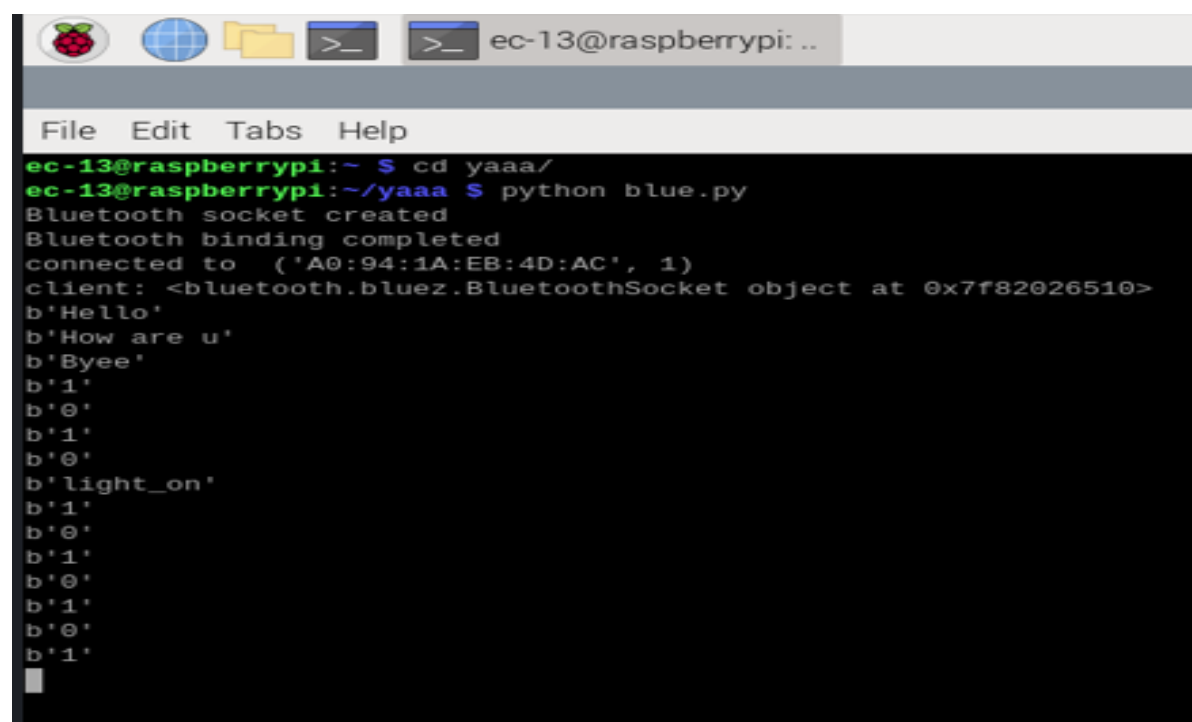


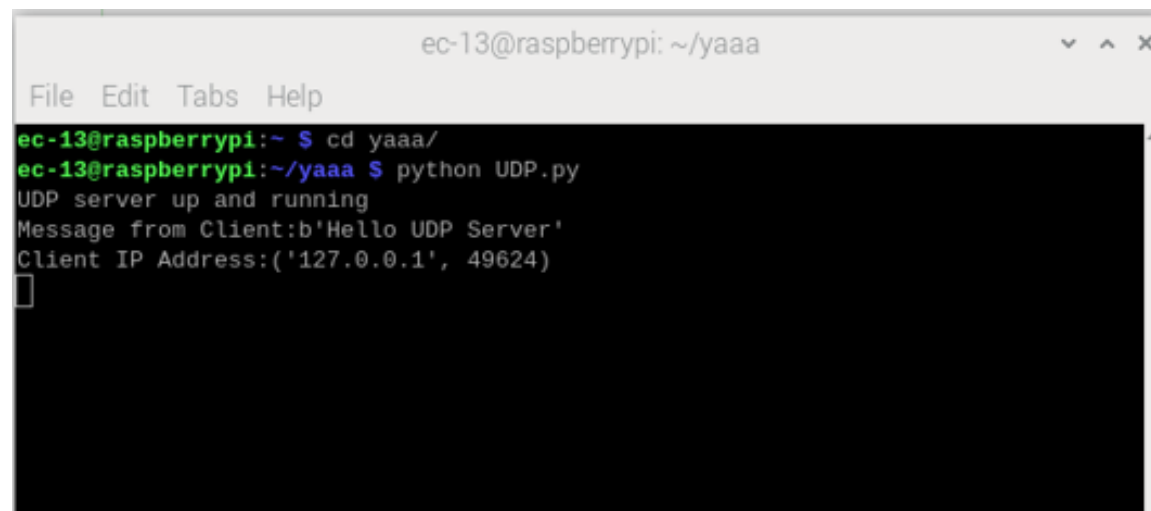
Sending Message: (From phone to Raspi via Bluetooth)



Receiving Message: (From phone to Raspi via Bluetooth)

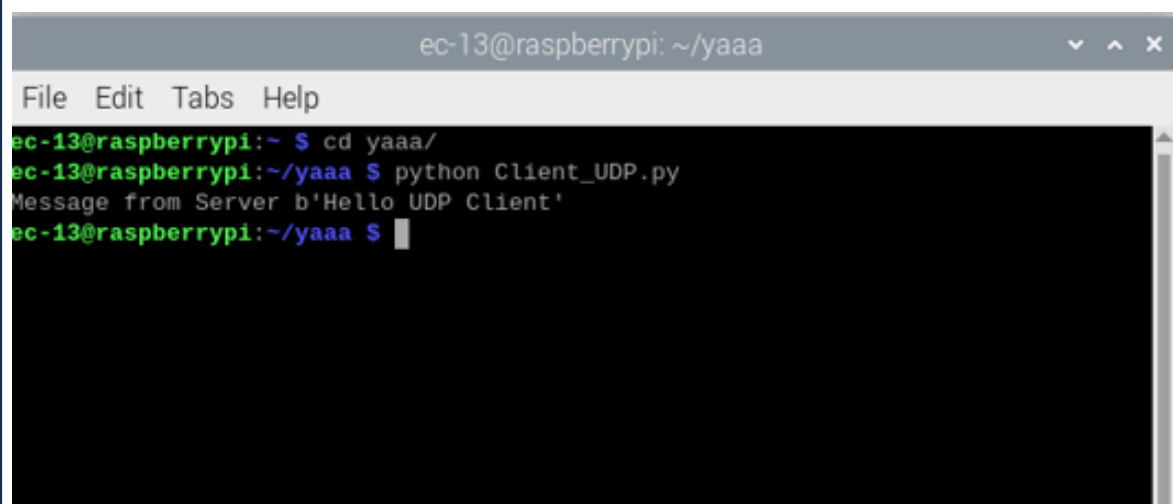


Server Terminal:



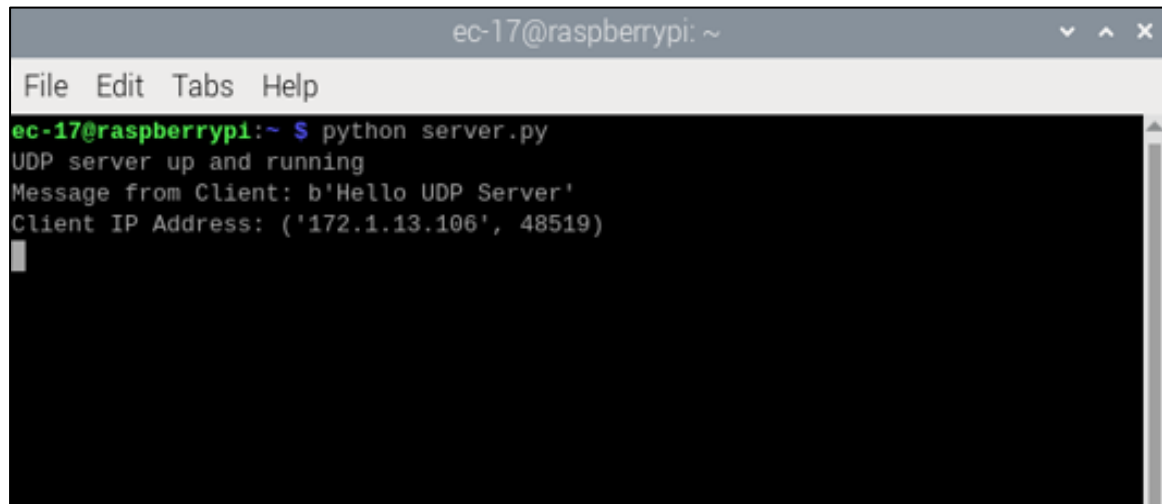
```
ec-13@raspberrypi: ~/yaaa
File Edit Tabs Help
ec-13@raspberrypi:~ $ cd yaaa/
ec-13@raspberrypi:~/yaaa $ python UDP.py
UDP server up and running
Message from Client:b'Hello UDP Server'
Client IP Address:('127.0.0.1', 49624)
█
```

Client Terminal:



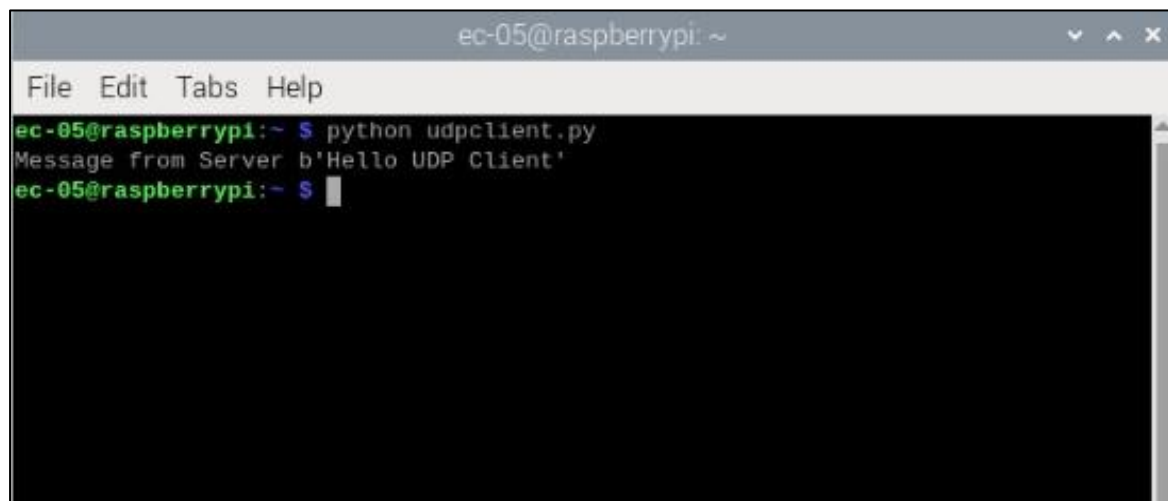
```
ec-13@raspberrypi: ~/yaaa
File Edit Tabs Help
ec-13@raspberrypi:~ $ cd yaaa/
ec-13@raspberrypi:~/yaaa $ python Client_UDP.py
Message from Server b'Hello UDP Client'
ec-13@raspberrypi:~/yaaa $ █
```

Server Terminal on System 1:



```
ec-17@raspberrypi: ~  
File Edit Tabs Help  
ec-17@raspberrypi:~ $ python server.py  
UDP server up and running  
Message from Client: b'Hello UDP Server'  
Client IP Address: ('172.1.13.106', 48519)  
█
```

Client Terminal on System 2:



```
ec-05@raspberrypi: ~  
File Edit Tabs Help  
ec-05@raspberrypi:~ $ python udpclient.py  
Message from Server b'Hello UDP Client'  
ec-05@raspberrypi:~ $ █
```

```

ec-17@raspberrypi1:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 42
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE ir
-> ;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> CREATE USER 'exampleuser'@'localhost' IDENTIFIED BY 'pimylifeup';
ERROR 1396 (HY000): Operation CREATE USER failed for 'exampleuser'@'localhost'
MariaDB [(none)]> CREATE USER 'lab'@'localhost' IDENTIFIED BY 'pimylifeup';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> USE ir
Database changed
MariaDB [ir]> CREATE TABLE SensorStats(data_time VARCHAR(50),irsensorstat FLOAT);
Query OK, 0 rows affected (0.012 sec)

MariaDB [ir]> GRANT ALL PRIVILEGES ON ir.* TO 'lab'@'localhost';
Query OK, 0 rows affected (0.003 sec)

MariaDB [ir]> FLUSH PRIVILEGES
-> ;
Query OK, 0 rows affected (0.001 sec)

MariaDB [ir]> quit
Bye
ec-17@raspberrypi1:~$

```

```

ec-17@raspberrypi1:~$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 46
Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> USE ir;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [ir]> SELECT * FROM SensorStats
-> ;
Empty set (0.001 sec)

MariaDB [ir]> CREATE TABLE SS(date_time VARCHAR(50),temperature FLOAT);
Query OK, 0 rows affected (0.012 sec)

MariaDB [ir]> SELECT * FROM SensorStats
-> ;
Empty set (0.001 sec)

MariaDB [ir]> SELECT * FROM SS;
+-----+
| date_time | temperature |
+-----+
| 2024-12-07 03:57:48.898844 | 1 |
| 2024-12-07 03:57:49.902959 | 1 |
| 2024-12-07 03:57:50.907981 | 1 |
| 2024-12-07 03:57:51.911194 | 1 |
| 2024-12-07 03:57:52.914489 | 1 |
| 2024-12-07 03:57:53.917867 | 0 |
| 2024-12-07 03:57:54.920659 | 0 |
| 2024-12-07 03:57:55.924561 | 1 |
| 2024-12-07 03:57:56.931406 | 0 |
| 2024-12-07 03:57:57.934751 | 1 |
| 2024-12-07 03:57:58.937233 | 0 |
| 2024-12-07 03:57:59.940329 | 1 |
| 2024-12-07 03:58:00.943433 | 1 |
| 2024-12-07 03:58:01.948364 | 1 |
| 2024-12-07 03:58:02.950905 | 0 |
| 2024-12-07 03:58:03.955867 | 1 |
| 2024-12-07 03:58:04.958428 | 1 |
| 2024-12-07 03:58:05.963831 | 1 |
| 2024-12-07 03:58:06.968687 | 1 |
| 2024-12-07 03:58:07.972063 | 1 |
| 2024-12-07 03:58:08.975640 | 1 |
| 2024-12-07 03:58:09.980120 | 1 |
| 2024-12-07 03:58:10.983454 | 1 |
| 2024-12-07 03:58:11.986014 | 1 |
| 2024-12-07 03:58:12.989036 | 1 |
| 2024-12-07 03:58:13.991170 | 1 |
| 2024-12-07 03:58:14.994933 | 1 |
| 2024-12-07 03:58:15.998088 | 1 |
| 2024-12-07 03:58:16.000646 | 1 |
| 2024-12-07 03:58:17.003682 | 1 |
| 2024-12-07 03:58:18.006684 | 1 |
| 2024-12-07 03:58:19.009763 | 1 |
| 2024-12-07 03:58:20.013471 | 1 |
| 2024-12-07 03:58:21.016432 | 1 |
| 2024-12-07 03:58:22.019493 | 1 |
| 2024-12-07 03:58:23.023261 | 1 |
| 2024-12-07 03:58:24.027343 | 1 |
| 2024-12-07 03:58:25.031067 | 1 |
| 2024-12-07 03:58:26.035235 | 1 |
| 2024-12-07 03:58:27.039504 | 1 |
| 2024-12-07 03:58:28.043639 | 1 |
| 2024-12-07 03:58:29.047642 | 1 |
| 2024-12-07 03:58:30.051647 | 1 |
| 2024-12-07 03:58:31.055613 | 1 |
| 2024-12-07 03:58:32.059559 | 1 |
+-----+
44 rows in set (0.001 sec)

```

```

MariaDB [ir]> SELECT * FROM SS;
+-----+
| date_time | temperature |
+-----+
| 2024-12-07 03:57:48.898844 | 1 |
| 2024-12-07 03:57:49.902959 | 1 |
| 2024-12-07 03:57:50.907981 | 1 |
| 2024-12-07 03:57:51.911194 | 1 |
| 2024-12-07 03:57:52.914489 | 1 |
| 2024-12-07 03:57:53.917867 | 0 |
| 2024-12-07 03:57:54.920659 | 0 |
| 2024-12-07 03:57:55.924561 | 1 |
| 2024-12-07 03:57:56.931406 | 0 |
| 2024-12-07 03:57:57.934751 | 1 |
| 2024-12-07 03:57:58.937233 | 0 |
| 2024-12-07 03:57:59.940329 | 1 |
| 2024-12-07 03:58:00.943433 | 1 |
| 2024-12-07 03:58:01.948364 | 1 |
| 2024-12-07 03:58:02.950905 | 0 |
| 2024-12-07 03:58:03.955867 | 1 |
| 2024-12-07 03:58:04.958428 | 1 |
| 2024-12-07 03:58:05.963831 | 1 |
| 2024-12-07 03:58:06.968687 | 1 |
| 2024-12-07 03:58:07.972063 | 1 |
| 2024-12-07 03:58:08.975640 | 1 |
| 2024-12-07 03:58:09.980120 | 1 |
| 2024-12-07 03:58:10.983454 | 1 |
| 2024-12-07 03:58:11.986014 | 1 |
| 2024-12-07 03:58:12.989036 | 1 |
| 2024-12-07 03:58:13.991170 | 1 |
| 2024-12-07 03:58:14.994933 | 1 |
| 2024-12-07 03:58:15.998088 | 1 |
| 2024-12-07 03:58:16.000646 | 1 |
| 2024-12-07 03:58:17.003682 | 1 |
| 2024-12-07 03:58:18.006684 | 1 |
| 2024-12-07 03:58:19.009763 | 1 |
| 2024-12-07 03:58:20.013471 | 1 |
| 2024-12-07 03:58:21.016432 | 1 |
| 2024-12-07 03:58:22.019493 | 1 |
| 2024-12-07 03:58:23.023261 | 1 |
| 2024-12-07 03:58:24.027343 | 1 |
| 2024-12-07 03:58:25.031067 | 1 |
| 2024-12-07 03:58:26.035235 | 1 |
| 2024-12-07 03:58:27.039504 | 1 |
| 2024-12-07 03:58:28.043639 | 1 |
| 2024-12-07 03:58:29.047642 | 1 |
| 2024-12-07 03:58:30.049447 | 1 |
| 2024-12-07 03:58:31.056136 | 1 |
| 2024-12-07 03:58:32.059559 | 1 |
+-----+
44 rows in set (0.001 sec)

```