

Aim : Understanding an connectivity of Raspberry pi / Beagle board with a Zigbee module

Problem Statement : Write a network application for communication between two devices using Zigbee

Theory :

- Zigbee is communication device used for the data transfer between the controller, computer, system really anything with special part as it works with low power consumption the transmission distance is limited to 10-100 meters line of sight
- Zigbee specification is intended to be simple and less expensive than other wireless n/w
- Here we make use of an interface of Zigbee with Raspberry pi 2 for a proper wireless communication
- Raspberry pi 2 has 4 USB ports, so it is better to use a Zigbee dongle for this interface
- Python script to perform Zigbee communication

```
import serial
```

```
ser = serial.Serial('/dev/ttyUSB0', 9600,  
                    timeout=5)
```

```
while True:
```

```
    ser.write('Hello user \r\n')
```

```
    incoming = ser.readline().strip()
```

```
    print 'received data: ' + incoming
```



Conclusion :

Thus we have done zigbee communication  
between two Raspberry Pi Device.