Experiment No- 06.

Name : Kajal Sunil Pagare
Rollno : 26   Div : B
Class : TE

Aim   : Understanding and connectivity
    of Raspberry - Pi / Beagle board with
    a zigbee module. Write a networks
    application for communications between
    two device using zigbee.

Theory :
        Zigbee is a Communications used for
the for the data transfer between the
Controllers, Computers system, really anything
with a serial port. As it works with low
power comsumption, the transmission
distances is limited is limited lo-100
meter line of sight. zigBee device can
transmit data over long distances by pass-
ing data through a mesh network of
intermediate device to reach more distan.
once. zigBee is typically used to low data
rate application that require long battery
life and secure networking. It main
application are in the field of wireless
Sensor network based on industries as it

The technology defines by the zigBee specific-ations is intended to be simpler and less expensive than other wireless networks. Here we make use of an interface of zigbee with Raspbeery Pi2 for a proper wireless communications. Raspbeery pi 2 has got use USB ports, So it zigbee Dongle for this is better to use a want to check the communication between the two paired ZigBee module.

Python script to perform zigbee commu-nication -

```
Import Serial.
# Enable USB communication,
Ser = Serial. Serial ('/dev/tty USB 0',
    9600, TIMEOUT = 5)
while True:
    ser.write ('Hello user \r\n')
    # write a Data.
    incoming = ser.readline().strip()
    print 'Received Data:'+ incoming,
```

Conclusion → Thus, we have done Zigbee Communication between two Raspbeery Pi Devices.