# CSE3011 NETWORK PROGRAMMING LAB EXPERIMENT 10

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**Experiment Description: UDP Client Server Communication program using Datagram** 

#### **CODE:**

### udpClient.java

{

```
import java.util.*;
import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
public class udpClient {

    public static void main(String[] args) throws IOException {

        Scanner sc = new Scanner(System.in);
        DatagramSocket ds = new DatagramSocket();
        InetAddress ip = InetAddress.getLocalHost();
        byte buf[] = null;
        while (true)
```

```
String inp = sc.nextLine();
             buf = inp.getBytes();
             DatagramPacket DpSend = new DatagramPacket(buf, buf.length,
ip, 1234);
             ds.send(DpSend);
            // break the loop if user enters "bye" if (inp.equals("bye"))
            break;
            }
            sc.close();
            ds.close();
      }
}
udpServer.java
import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.util.*;
public class udpServer {
      public static void main(String[] args) throws IOException {
            // TODO Auto-generated method stub
            DatagramSocket ds = new DatagramSocket(1234);
            byte[] receive = new byte[65535];
            DatagramPacket DpReceive = null;
```

```
while (true)
     {
      DpReceive = new DatagramPacket(receive,receive.length);
      ds.receive(DpReceive);
  System.out.println("Client Says:-" + data(receive));
  Arrays.fill(receive,(byte)0);
      if (data(receive).toString().equals("bye"))
      {
        System.out.println("Client sent Bye!!EXITING");
        break;
      }
     }
     ds.close();
}
     public static StringBuilder data(byte[] a)
     {
      if (a == null)
      return null;
      StringBuilder r = new StringBuilder();
      int i = 0;
```

```
while (a[i]!= 0)
{
    r.append((char)a[i]);
    i++;
}
return r;
}
```

# **Outputs**

}

## **Client side**

```
D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>javac udpClient.java

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
hello

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>javac udpClient.java

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
hello

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
how r u

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
bye

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
bye

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpClient
```

## Server Side

```
D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>javac udpServer.java

D:\3rd YEAR FALL SEM\LAB\Network Programming Lab Experiments\Lab10>java udpServer

Client Says:-hello
Client Says:-how r u
Client Says:-bye
```