



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

COLLEGE OF ENGINEERING AND TECHNOLOGY
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Lab 5

Multi-Cast Datagram Sockets

Multi-Cast Datagram Sockets

Listing 1: Receiver.java

```
1 import java.net.*;
2 import java.io.*;
3
4 public class Receiver{
5     public static void main(String[] args){
6         int port = 4445;
7         byte[] buf = new byte[256];
8         String msg;
9         MulticastSocket socket;
10        DatagramPacket packet;
11        InetAddress group;
12        try{
13            socket = new MulticastSocket(port);
14            group = InetAddress.getByName("230.0.0.1");
15            socket.joinGroup(group);
16            packet = new DatagramPacket(buf, buf.length);
17            socket.receive(packet);
18            msg = new String(packet.getData());
19            System.out.println(msg);
20            socket.leaveGroup(group);
21            socket.close();
22        }catch(IOException ex){
23            System.out.println(ex);
24        }
25    }
26 }
```

Listing 2: Sender.java

```
1 import java.net.*;
2 import java.io.*;
```

```
3
4 public class Sender{
5     public static void main(String[] args){
6         int port = 4445;
7         String msg = "My First Multicast !";
8         DatagramSocket socket;
9         DatagramPacket packet;
10        InetAddress group;
11        try{
12            group = InetAddress.getByName("230.0.0.1");
13            socket = new DatagramSocket();
14            packet = new DatagramPacket(msg.getBytes(), msg.getBytes().length, group, port)←
15                ;
16            socket.send(packet);
17            socket.close();
18        }catch(IOException ex){
19            System.out.println(ex);
20        }
21    }
```