



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

COLLEGE OF ENGINEERING AND TECHNOLOGY
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Lab 4

Datagram Sockets

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         DatagramSocket socket;
10        DatagramPacket packet;
11        try{
12            socket = new DatagramSocket(port);
13            packet = new DatagramPacket(buf, buf.length);
14            socket.receive(packet);
15            msg = new String(packet.getData());
16            System.out.println(msg);
17            socket.close();
18        }catch(IOException ex){
19            System.out.println(ex);
20        }
21    }
22 }
```

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 UDP Packet !";
8      DatagramSocket socket;
9      DatagramPacket packet;
10     InetAddress address;
11     try{
12         address = InetAddress.getByName("localhost");
13         socket = new DatagramSocket();
14         packet = new DatagramPacket(msg.getBytes(), msg.getBytes().length, address, ↵
15             port);
16         socket.send(packet);
17         socket.close();
18     }catch(IOException ex){
19         System.out.println(ex);
20     }
21 }
```