



## One Sender / One Receiver

Assignments: MV3500 Homework - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Projects Files x Services

- MV3302ClassCode
- MV3302Code
- MV3500\_Assignments\_Landas
- Networked Graphics MV3500
  - DIS
  - nbproject
  - originals
  - presentations
  - projects
    - build
    - homework1
    - homework2
      - AngelAssignment 2.pptx
      - AngelMulticastReceiver.java
      - AngelMulticastSenderExample.java
      - LandasMulticastReceiver.java
      - LandasMulticastSender.java
      - LandasMulticastSender2.java
      - MaroonMulticastReceiver.java
      - MaroonMulticastSenderExample.java
      - README.txt
      - hanley\_README\_MulticastHW.txt
      - hanley\_multicastHW\_receiver.java
      - hanley\_multicastHW\_sender.java
    - nbproject
      - README.md
      - build.xml
      - manifest.mf
      - DisExamples
        - TopExample1
        - TopExample2
        - TopExample3
        - TopExample4
        - TopExample5
        - UdpExample1
      - multicastExample1
        - multicastReceiver
        - multicastSender

Members

- LandasMulticastSender
  - main(String[] args)
  - INET\_ADDR : String
  - PORT : int

```
1 import java.io.IOException;
2 import java.net.DatagramPacket;
3 import java.net.DatagramSocket;
4 import java.net.InetAddress;
5 import java.net.UnknownHostException;
6
7 /**
8  *
9  * @author Rico
10  */
11 public class LandasMulticastSender {
12
13     final static String INET_ADDR = "239.1.2.15";
14     final static int PORT = 1717;
15
16     public static void main(String[] args) throws UnknownHostException, InterruptedException {
17         // address that we are connecting to
18         InetAddress addr = InetAddress.getByAddress(INET_ADDR);
19
20         // new DatagramSocket
21         // used to send the data
22         try (DatagramSocket serverSocket = new DatagramSocket()) {
23             for (int i = 0; i < 100; i++) {
24                 String msg = "Server 1 sent message no " + i;
25
26                 // packet
27                 // (in the form of bytes)
28                 DatagramPacket msgPacket = new DatagramPacket(msg.getBytes(),
29                     msg.getBytes().length, addr, PORT);
30                 serverSocket.send(msgPacket);
31
32                 System.out.println("Server 1 sent packet with msg: " + msg);
33                 Thread.sleep(1000);
34             }
35         } catch (IOException ex) {
36             ex.printStackTrace();
37         }
38     }
39 }
40
41 }
```

Output

Assignments: MV3500\_Homework (run-single) x Assignments: MV3500\_Homework (run-single) #2 x

```
ant -f "C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\projects\Assignments" run-single
Deleting: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\projects\Assignments
Updating property file: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\p
Compiling 1 source file to C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500
compile-single:
run-single:
Server 1 sent packet with msg: Server 1 sent message no 0
Server 1 sent packet with msg: Server 1 sent message no 1
Server 1 sent packet with msg: Server 1 sent message no 2
Server 1 sent packet with msg: Server 1 sent message no 3
Server 1 sent packet with msg: Server 1 sent message no 4
Server 1 sent packet with msg: Server 1 sent message no 5
Server 1 sent packet with msg: Server 1 sent message no 6
Server 1 sent packet with msg: Server 1 sent message no 7
Server 1 sent packet with msg: Server 1 sent message no 8
Server 1 sent packet with msg: Server 1 sent message no 9
Server 1 sent packet with msg: Server 1 sent message no 10
Server 1 sent packet with msg: Server 1 sent message no 11
Server 1 sent packet with msg: Server 1 sent message no 12
Server 1 sent packet with msg: Server 1 sent message no 13
Server 1 sent packet with msg: Server 1 sent message no 14
Server 1 sent packet with msg: Server 1 sent message no 15
Server 1 sent packet with msg: Server 1 sent message no 16
Server 1 sent packet with msg: Server 1 sent message no 17
Server 1 sent packet with msg: Server 1 sent message no 18
Server 1 sent packet with msg: Server 1 sent message no 19
Server 1 sent packet with msg: Server 1 sent message no 20
Server 1 sent packet with msg: Server 1 sent message no 21
Server 1 sent packet with msg: Server 1 sent message no 22
Server 1 sent packet with msg: Server 1 sent message no 23
Server 1 sent packet with msg: Server 1 sent message no 24
Server 1 sent packet with msg: Server 1 sent message no 25
Server 1 sent packet with msg: Server 1 sent message no 26
Server 1 sent packet with msg: Server 1 sent message no 27
Server 1 sent packet with msg: Server 1 sent message no 28
Server 1 sent packet with msg: Server 1 sent message no 29
Server 1 sent packet with msg: Server 1 sent message no 30
Server 1 sent packet with msg: Server 1 sent message no 31
Server 1 sent packet with msg: Server 1 sent message no 32
Server 1 sent packet with msg: Server 1 sent message no 33
Server 1 sent packet with msg: Server 1 sent message no 34
Server 1 sent packet with msg: Server 1 sent message no 35
Server 1 sent packet with msg: Server 1 sent message no 36
Server 1 sent packet with msg: Server 1 sent message no 37
Server 1 sent packet with msg: Server 1 sent message no 38
Server 1 sent packet with msg: Server 1 sent message no 39
Server 1 sent packet with msg: Server 1 sent message no 40
Server 1 sent packet with msg: Server 1 sent message no 41
Server 1 sent packet with msg: Server 1 sent message no 42
Server 1 sent packet with msg: Server 1 sent message no 43
Server 1 sent packet with msg: Server 1 sent message no 44
Server 1 sent packet with msg: Server 1 sent message no 45
Server 1 sent packet with msg: Server 1 sent message no 46
Server 1 sent packet with msg: Server 1 sent message no 47
Server 1 sent packet with msg: Server 1 sent message no 48
Server 1 sent packet with msg: Server 1 sent message no 49
Server 1 sent packet with msg: Server 1 sent message no 50
Server 1 sent packet with msg: Server 1 sent message no 51
Server 1 sent packet with msg: Server 1 sent message no 52
Server 1 sent packet with msg: Server 1 sent message no 53
Server 1 sent packet with msg: Server 1 sent message no 54
Server 1 sent packet with msg: Server 1 sent message no 55
Server 1 sent packet with msg: Server 1 sent message no 56
```

8:4 JWS

INS

## Two Senders / One Receiver

Assignments: MV3500 Homework - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Projects: MV3500Code, MV3500\_Assignments\_Landas, Networked Graphics MV3500, nbproject, originals, presentations, projects, Assignments, build, homework1, homework2, AngelAssignment 2.pptx, AngelMulticastReceiver.java, AngelMulticastSenderExample.java, LandasMulticastReceiver.java, LandasMulticastSender2.java, LandasMulticastSender.java, LandasMulticastSender2.java, MaroonMulticastReceiver.java, MaroonMulticastSenderExample.java, README.txt, hanley\_README\_MulticastHW.txt, hanley\_multicastHW\_receiver.java, hanley\_multicastHW\_sender.java, nbproject, README.md, build.xml, manifest.mf, DistExamples, TcpExample1, TcpExample2, TcpExample3, TcpExample4, TcpExample5, UdpExample1, multicastExample1, MulticastReceiver, build, nbproject, src, multicastreceiver, build.xml, manifest.mf, MulticastSenderExample, build, nbproject, src, multicastsenderexample, MulticastSenderExample.java

Source: LandasMulticastSender.java

```
1 import java.io.IOException;
2 import java.net.DatagramPacket;
3 import java.net.DatagramSocket;
4 import java.net.InetAddress;
5 import java.net.UnknownHostException;
6
7 /**
8  *
9  * @author Rico
10  */
11 public class LandasMulticastSender {
12
13     final static String INET_ADDR = "259.1.2.15";
14     final static int PORT = 1717;
15
16     public static void main(String[] args) throws UnknownHostException, InterruptedException {
17         // address that we are connecting to
18         InetAddress addr = InetAddress.getByName(INET_ADDR);
19
20         // new DatagramSocket
21         // used to send the data
22         try (DatagramSocket serverSocket = new DatagramSocket()) {
23             for (int i = 0; i < 100; i++) {
24                 String msg = "Server 1 sent message no " + i;
25
26                 // packet
27                 // (in the form of bytes)
28                 DatagramPacket msgPacket = new DatagramPacket(msg.getBytes(),
29                     msg.getBytes().length, addr, PORT);
30                 serverSocket.send(msgPacket);
31
32                 System.out.println("Server 1 sent packet with msg: " + msg);
33                 Thread.sleep(1000);
34             }
35         } catch (IOException ex) {
36             ex.printStackTrace();
37         }
38     }
39 }
40
41
```

Output: Assignments: MV3500\_Homework (run-single) x Assignments: MV3500\_Homework (run-single) #2 x Assignments: MV3500\_Homework (run-single) #3 x

```
ant -f "C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\projects\Assign
init:
Deleting: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\projects\Assign
dps.jar:
Updating property file: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\p
Compiling 1 source file to C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV350
compile-single:
run-single:
Server 1 sent packet with msg: Server 1 sent message no 0
Server 1 sent packet with msg: Server 1 sent message no 1
Server 1 sent packet with msg: Server 1 sent message no 2
Server 1 sent packet with msg: Server 1 sent message no 3
Server 1 sent packet with msg: Server 1 sent message no 4
Server 1 sent packet with msg: Server 1 sent message no 5
Server 1 sent packet with msg: Server 1 sent message no 6
Server 1 sent packet with msg: Server 1 sent message no 7
Server 1 sent packet with msg: Server 1 sent message no 8
Server 1 sent packet with msg: Server 1 sent message no 9
Server 1 sent packet with msg: Server 1 sent message no 10
Server 1 sent packet with msg: Server 1 sent message no 11
Server 1 sent packet with msg: Server 1 sent message no 12
Server 1 sent packet with msg: Server 1 sent message no 13
Server 1 sent packet with msg: Server 1 sent message no 14
Server 1 sent packet with msg: Server 1 sent message no 15
Server 1 sent packet with msg: Server 1 sent message no 16
Server 1 sent packet with msg: Server 1 sent message no 17
Server 1 sent packet with msg: Server 1 sent message no 18
Server 1 sent packet with msg: Server 1 sent message no 19
Server 1 sent packet with msg: Server 1 sent message no 20
Server 1 sent packet with msg: Server 1 sent message no 21
Server 1 sent packet with msg: Server 1 sent message no 22
Server 1 sent packet with msg: Server 1 sent message no 23
Server 1 sent packet with msg: Server 1 sent message no 24
Server 1 sent packet with msg: Server 1 sent message no 25
Server 1 sent packet with msg: Server 1 sent message no 26
Server 1 sent packet with msg: Server 1 sent message no 27
Server 1 sent packet with msg: Server 1 sent message no 28
Server 1 sent packet with msg: Server 1 sent message no 29
Server 1 sent packet with msg: Server 1 sent message no 30
Server 1 sent packet with msg: Server 1 sent message no 31
Server 1 sent packet with msg: Server 1 sent message no 32
Server 1 sent packet with msg: Server 1 sent message no 33
Server 1 sent packet with msg: Server 1 sent message no 34
Server 1 sent packet with msg: Server 1 sent message no 35
Server 1 sent packet with msg: Server 1 sent message no 36
Server 1 sent packet with msg: Server 1 sent message no 37
BUILD STOPPED (total time: 38 seconds)
```

Members: LandasMulticastSender, main(String[] args), INET\_ADDR: String, PORT: int

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## Two Senders / Two Receivers

Assignments: MV3500 Homework - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

Projects: MV3500Code, MV3500\_Assignments\_Landas, Networked Graphics MV3500, DIS, nbproject, originals, presentations, projects, Assignments, homework1, homework2, AngelAssignment 2.pptx, AngelMulticastReceiver.java, AngelMulticastSenderExample.java, LandasMulticastReceiver.java, LandasMulticastReceiver2.java, LandasMulticastSender.java, LandasMulticastSender2.java, MaroonMulticastReceiver.java, README.txt, hanley\_README\_MulticastHW.bt, hanley\_multicastHW\_receiver.java, hanley\_multicastHW\_sender.java, nbproject, README.md, build.xml, manifest.mf, DisExamples, TcpExample1, TcpExample2, TcpExample3, TcpExample4, TcpExample5, UdpExample1, multicastExample1, MulticastReceiver, build, nbproject, src, MulticastReceiver.java, build.xml, manifest.mf, MulticastSenderExample, build, nbproject, src, MulticastSenderExample.java, MulticastSenderExample.java

Source

```
1 import java.io.IOException;
2 import java.net.DatagramPacket;
3 import java.net.DatagramSocket;
4 import java.net.InetAddress;
5 import java.net.UnknownHostException;
6
7 /**
8  *
9  * @author Rico
10  */
11 public class LandasMulticastSender {
12
13     final static String INET_ADDR = "239.1.2.15";
14     final static int PORT = 1717;
15
16     public static void main(String[] args) throws UnknownHostException, InterruptedException {
17         // address that we are connecting to
18         InetAddress addr = InetAddress.getByAddress(INET_ADDR);
19
20         // new DatagramSocket
21         // used to send the data
22         try (DatagramSocket serverSocket = new DatagramSocket()) {
23             for (int i = 0; i < 100; i++) {
24                 String msg = "Server 1 sent message no " + i;
25
26                 // packet
27                 // (in the form of bytes)
28                 DatagramPacket msgPacket = new DatagramPacket(msg.getBytes(),
29                     msg.getBytes().length, addr, PORT);
30                 serverSocket.send(msgPacket);
31
32                 System.out.println("Server 1 sent packet with msg: " + msg);
33                 Thread.sleep(1000);
34             }
35         } catch (IOException ex) {
36             ex.printStackTrace();
37         }
38     }
39 }
40
41
```

Output

Assignments: MV3500\_Homework (run-single) x Assignments: MV3500\_Homework (run-single) #2 x Assignments: MV3500\_Homework (run-single) #3 x Assignment...

compile-single:  
run-single:  
Server 1 sent packet with msg: Server 1 sent message no 0  
Server 1 sent packet with msg: Server 1 sent message no 1  
Server 1 sent packet with msg: Server 1 sent message no 2  
Server 1 sent packet with msg: Server 1 sent message no 3  
Server 1 sent packet with msg: Server 1 sent message no 4  
Server 1 sent packet with msg: Server 1 sent message no 5  
Server 1 sent packet with msg: Server 1 sent message no 6  
Server 1 sent packet with msg: Server 1 sent message no 7  
Server 1 sent packet with msg: Server 1 sent message no 8  
Server 1 sent packet with msg: Server 1 sent message no 9  
Server 1 sent packet with msg: Server 1 sent message no 10  
Server 1 sent packet with msg: Server 1 sent message no 11  
Server 1 sent packet with msg: Server 1 sent message no 12  
Server 1 sent packet with msg: Server 1 sent message no 13  
Server 1 sent packet with msg: Server 1 sent message no 14  
Server 1 sent packet with msg: Server 1 sent message no 15  
Server 1 sent packet with msg: Server 1 sent message no 16  
Server 1 sent packet with msg: Server 1 sent message no 17  
Server 1 sent packet with msg: Server 1 sent message no 18  
Server 1 sent packet with msg: Server 1 sent message no 19  
Server 1 sent packet with msg: Server 1 sent message no 20  
Server 1 sent packet with msg: Server 1 sent message no 21  
Server 1 sent packet with msg: Server 1 sent message no 22  
Server 1 sent packet with msg: Server 1 sent message no 23  
Server 1 sent packet with msg: Server 1 sent message no 24  
Server 1 sent packet with msg: Server 1 sent message no 25  
Server 1 sent packet with msg: Server 1 sent message no 26  
Server 1 sent packet with msg: Server 1 sent message no 27  
Server 1 sent packet with msg: Server 1 sent message no 28  
Server 1 sent packet with msg: Server 1 sent message no 29  
Server 1 sent packet with msg: Server 1 sent message no 30  
Server 1 sent packet with msg: Server 1 sent message no 31  
Server 1 sent packet with msg: Server 1 sent message no 32  
Server 1 sent packet with msg: Server 1 sent message no 33  
Server 1 sent packet with msg: Server 1 sent message no 34  
Server 1 sent packet with msg: Server 1 sent message no 35  
Server 1 sent packet with msg: Server 1 sent message no 36  
Server 1 sent packet with msg: Server 1 sent message no 37  
Server 1 sent packet with msg: Server 1 sent message no 38  
Server 1 sent packet with msg: Server 1 sent message no 39  
Server 1 sent packet with msg: Server 1 sent message no 40  
Server 1 sent packet with msg: Server 1 sent message no 41  
Server 1 sent packet with msg: Server 1 sent message no 42  
Server 1 sent packet with msg: Server 1 sent message no 43  
Server 1 sent packet with msg: Server 1 sent message no 44  
Server 1 sent packet with msg: Server 1 sent message no 45  
Server 1 sent packet with msg: Server 1 sent message no 46  
Server 1 sent packet with msg: Server 1 sent message no 47  
Server 1 sent packet with msg: Server 1 sent message no 48  
Server 1 sent packet with msg: Server 1 sent message no 49  
Server 1 sent packet with msg: Server 1 sent message no 50  
Server 1 sent packet with msg: Server 1 sent message no 51  
Server 1 sent packet with msg: Server 1 sent message no 52  
Server 1 sent packet with msg: Server 1 sent message no 53  
Server 1 sent packet with msg: Server 1 sent message no 54  
Server 1 sent packet with msg: Server 1 sent message no 55  
Server 1 sent packet with msg: Server 1 sent message no 56  
Server 1 sent packet with msg: Server 1 sent message no 57  
Server 1 sent packet with msg: Server 1 sent message no 58  
Server 1 sent packet with msg: Server 1 sent message no 59  
BUILD STOPPED (total time: 1 minute 0 seconds)

Members

LandasMulticastSender

- main(String[] args)
- INET\_ADDR: String
- PORT: int

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Projects

- MV3500Code
- MV3500\_Assignments\_Landas
- Networked Graphics MV3500
  - DIS
  - nbproject
    - originals
    - presentations
    - projects
      - Assignments
        - build
        - homework1
        - homework2
          - AngelMulticastReceiver.java
          - AngelMulticastSenderExample.java
          - LandasMulticastReceiver.java
          - LandasMulticastSender2.java
          - LandasMulticastSender.java
          - MaroonMulticastReceiver.java
          - MaroonMulticastSenderExample.java
          - README.txt
          - hanley\_README\_MulticastHW.txt
          - hanley\_multicastHW\_receiver.java
          - hanley\_multicastHW\_sender.java

Navigator

Members

- LandasMulticastSender2
  - main(String[] args)
  - INET\_ADDR : String
  - PORT : int

```

1  import java.io.IOException;
2  import java.net.DatagramPacket;
3  import java.net.DatagramSocket;
4  import java.net.InetAddress;
5  import java.net.UnknownHostException;
6
7  /**
8   *
9   * @author Rico
10  */
11
12  public class LandasMulticastSender2 {
13
14      final static String INET_ADDR = "239.1.2.15";
15      final static int PORT = 1717;
16
17      public static void main(String[] args) throws UnknownHostException, InterruptedException {
18          // address that we are connecting to
19          InetAddress addr = InetAddress.getByAddress(INET_ADDR);
20
21          // new DatagramSocket
22          // used to send the data
23          try (DatagramSocket serverSocket = new DatagramSocket()) {
24              for (int i = 0; i < 100; i++) {
25                  String msg = "Server 2 sent message no " + i;
26
27                  // packet
28                  // (in the form of bytes)
29                  DatagramPacket msgPacket = new DatagramPacket(msg.getBytes(),
30                      msg.getBytes().length, addr, PORT);
31                  serverSocket.send(msgPacket);
32
33                  System.out.println("Server 2 sent packet with msg: " + msg);
34                  Thread.sleep(1000);
35              }
36          } catch (IOException ex) {
37              ex.printStackTrace();
38          }
39      }
40  }
41

```

Output

ngile x Assignments\_MV3500\_Homework (run-single) #2 x Assignments\_MV3500\_Homework (run-single) #3 x Assignments\_MV3500\_Homework (run-single) #4 x

Compiling 1 source file to C:\Users\Rico\Documents\7\_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\pro...

compile-single:

run-single:

```

Server 2 sent packet with msg: Server 2 sent message no 0
Server 2 sent packet with msg: Server 2 sent message no 1
Server 2 sent packet with msg: Server 2 sent message no 2
Server 2 sent packet with msg: Server 2 sent message no 3
Server 2 sent packet with msg: Server 2 sent message no 4
Server 2 sent packet with msg: Server 2 sent message no 5
Server 2 sent packet with msg: Server 2 sent message no 6
Server 2 sent packet with msg: Server 2 sent message no 7
Server 2 sent packet with msg: Server 2 sent message no 8
Server 2 sent packet with msg: Server 2 sent message no 9
Server 2 sent packet with msg: Server 2 sent message no 10
Server 2 sent packet with msg: Server 2 sent message no 11
Server 2 sent packet with msg: Server 2 sent message no 12
Server 2 sent packet with msg: Server 2 sent message no 13
Server 2 sent packet with msg: Server 2 sent message no 14
Server 2 sent packet with msg: Server 2 sent message no 15
Server 2 sent packet with msg: Server 2 sent message no 16
Server 2 sent packet with msg: Server 2 sent message no 17
Server 2 sent packet with msg: Server 2 sent message no 18
Server 2 sent packet with msg: Server 2 sent message no 19
Server 2 sent packet with msg: Server 2 sent message no 20
Server 2 sent packet with msg: Server 2 sent message no 21
Server 2 sent packet with msg: Server 2 sent message no 22
Server 2 sent packet with msg: Server 2 sent message no 23
Server 2 sent packet with msg: Server 2 sent message no 24
Server 2 sent packet with msg: Server 2 sent message no 25
Server 2 sent packet with msg: Server 2 sent message no 26
Server 2 sent packet with msg: Server 2 sent message no 27
Server 2 sent packet with msg: Server 2 sent message no 28
Server 2 sent packet with msg: Server 2 sent message no 29
Server 2 sent packet with msg: Server 2 sent message no 30
Server 2 sent packet with msg: Server 2 sent message no 31
Server 2 sent packet with msg: Server 2 sent message no 32
Server 2 sent packet with msg: Server 2 sent message no 33
Server 2 sent packet with msg: Server 2 sent message no 34
Server 2 sent packet with msg: Server 2 sent message no 35
Server 2 sent packet with msg: Server 2 sent message no 36
Server 2 sent packet with msg: Server 2 sent message no 37
Server 2 sent packet with msg: Server 2 sent message no 38
Server 2 sent packet with msg: Server 2 sent message no 39
Server 2 sent packet with msg: Server 2 sent message no 40
Server 2 sent packet with msg: Server 2 sent message no 41
Server 2 sent packet with msg: Server 2 sent message no 42
Server 2 sent packet with msg: Server 2 sent message no 43
Server 2 sent packet with msg: Server 2 sent message no 44
Server 2 sent packet with msg: Server 2 sent message no 45
Server 2 sent packet with msg: Server 2 sent message no 46
Server 2 sent packet with msg: Server 2 sent message no 47
Server 2 sent packet with msg: Server 2 sent message no 48
Server 2 sent packet with msg: Server 2 sent message no 49
Server 2 sent packet with msg: Server 2 sent message no 50
Server 2 sent packet with msg: Server 2 sent message no 51
Server 2 sent packet with msg: Server 2 sent message no 52
Server 2 sent packet with msg: Server 2 sent message no 53
Server 2 sent packet with msg: Server 2 sent message no 54
Server 2 sent packet with msg: Server 2 sent message no 55
Server 2 sent packet with msg: Server 2 sent message no 56
Server 2 sent packet with msg: Server 2 sent message no 57
Server 2 sent packet with msg: Server 2 sent message no 58
Server 2 sent packet with msg: Server 2 sent message no 59
BUILD STOPPED (total time: 1 minute 0 seconds)

```



Projects Files Services

- MV3500Code
- MV3500\_Assignments\_Landas
  - Networked Graphics MV3500
    - DIS
    - nbproject
      - originals
      - presentations
      - projects
        - Assignments
          - build
          - homework1
          - homework2
            - AngelAssignment 2.pptx
            - AngelMulticastReceiver.java
            - AngelMulticastSenderExample.java
            - LandasMulticastReceiver.java
            - LandasMulticastReceiver2.java
            - LandasMulticastSender.java
            - LandasMulticastSender2.java
            - MaroonMulticastReceiver.java
            - MaroonMulticastSenderExample.java
            - README.txt
            - hanley\_README\_MulticastHW.txt
            - Phanley\_multicastHW\_receiver.java
            - Phanley\_multicastHW\_sender.java

LandasMulticastReceiver - Navigator

Members

- LandasMulticastReceiver
  - main(String[] args)
  - INET\_ADDR : String
  - PORT : int

```

1  import java.io.IOException;
2  import java.net.DatagramPacket;
3  import java.net.InetAddress;
4  import java.net.MulticastSocket;
5  import java.net.UnknownHostException;
6
7  /**
8   *
9   * @author Rico
10  */
11
12  public class LandasMulticastReceiver {
13
14      final static String INET_ADDR = "239.1.2.15";
15      final static int PORT = 1717;
16
17      public static void main(String[] args) throws UnknownHostException {
18          // address that we are connecting to
19          InetAddress address = InetAddress.getByAddress(INET_ADDR);
20
21          // buffer of bytes
22          // the incoming bytes containing the information from the server
23          byte[] buf = new byte[256];
24
25          // Multicast socket
26          try (MulticastSocket clientSocket = new MulticastSocket(PORT)) {
27              // Join
28              clientSocket.joinGroup(address);
29
30              while (true) {
31                  // Receive information and print
32                  DatagramPacket msgPacket = new DatagramPacket(buf, buf.length);
33                  clientSocket.receive(msgPacket);
34
35                  String msg = new String(buf, 0, buf.length);
36                  System.out.println("Socket 1 received msg: " + msg);
37              }
38          } catch (IOException ex) {
39              ex.printStackTrace();
40          }
41      }
42  }
43

```

Output

Assignments: MV3500\_Homework (run-single) X Assignments: MV3500\_Homework (run-single) #2 X Assignments: MV3500\_Homework (run-single) #3 X Assignment...

```

ant -f "C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\project\Assignments"
init:
Deleting: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\project\Assignments\
depa-jar:
Updating property file: C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\project\
Compiling 1 source file to C:\Users\Rico\Documents\7_AY18-Q2\MV3500 - Internetwork Comm and Sim\NetBeans Repository\NetworkedGraphics\MV3500\project\
compile-single:
run-single:
Socket 1 received msg: Server 1 sent message no 0
Socket 1 received msg: Server 1 sent message no 1
Socket 1 received msg: Server 1 sent message no 2
Socket 1 received msg: Server 2 sent message no 0
Socket 1 received msg: Server 1 sent message no 3
Socket 1 received msg: Server 2 sent message no 1
Socket 1 received msg: Server 1 sent message no 4
Socket 1 received msg: Server 2 sent message no 2
Socket 1 received msg: Server 1 sent message no 5
Socket 1 received msg: Server 2 sent message no 3
Socket 1 received msg: Server 1 sent message no 6
Socket 1 received msg: Server 2 sent message no 4
Socket 1 received msg: Server 1 sent message no 7
Socket 1 received msg: Server 2 sent message no 5
Socket 1 received msg: Server 1 sent message no 8
Socket 1 received msg: Server 2 sent message no 6
Socket 1 received msg: Server 1 sent message no 9
Socket 1 received msg: Server 2 sent message no 7
Socket 1 received msg: Server 1 sent message no 10
Socket 1 received msg: Server 2 sent message no 8
Socket 1 received msg: Server 1 sent message no 11
Socket 1 received msg: Server 2 sent message no 9
Socket 1 received msg: Server 1 sent message no 12
Socket 1 received msg: Server 2 sent message no 10
Socket 1 received msg: Server 1 sent message no 13
Socket 1 received msg: Server 2 sent message no 11
Socket 1 received msg: Server 1 sent message no 14
Socket 1 received msg: Server 2 sent message no 12
Socket 1 received msg: Server 1 sent message no 15
Socket 1 received msg: Server 2 sent message no 13
Socket 1 received msg: Server 1 sent message no 16
Socket 1 received msg: Server 2 sent message no 14
Socket 1 received msg: Server 1 sent message no 17
Socket 1 received msg: Server 2 sent message no 15
Socket 1 received msg: Server 1 sent message no 18
Socket 1 received msg: Server 2 sent message no 16
Socket 1 received msg: Server 1 sent message no 19
Socket 1 received msg: Server 2 sent message no 17
Socket 1 received msg: Server 1 sent message no 20
Socket 1 received msg: Server 2 sent message no 18
Socket 1 received msg: Server 1 sent message no 21
Socket 1 received msg: Server 2 sent message no 19
Socket 1 received msg: Server 1 sent message no 22
Socket 1 received msg: Server 2 sent message no 20
Socket 1 received msg: Server 1 sent message no 23
Socket 1 received msg: Server 2 sent message no 21
Socket 1 received msg: Server 1 sent message no 24
Socket 1 received msg: Server 2 sent message no 22
Socket 1 received msg: Server 1 sent message no 25
Socket 1 received msg: Server 2 sent message no 23
Socket 1 received msg: Server 1 sent message no 26
Socket 1 received msg: Server 2 sent message no 24
Socket 1 received msg: Server 1 sent message no 27
Socket 1 received msg: Server 2 sent message no 25
Socket 1 received msg: Server 1 sent message no 28
Socket 1 received msg: Server 2 sent message no 26
Socket 1 received msg: Server 1 sent message no 29

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