1 TCP

1.1 Socket (java.net)

Konstruktoren:

IOException, BindException

public Socket (String host, int port) throws

 Methoden: public Socket accept() throws IOException public void close() throws IOException public InetAddress getInetAddress() public int getLocalPort()

public ServerSocket(int port) throws

2 UDP

Methoden:

Konstruktor:

2.1 DatagramSocket (java.net)

public void close()
public void send(DatagramPacket dp) throws
IOException
public void receive (DatagramPacket dp) throws
IOException

2.2 DatagramPacket (java.net)

Methoden:
 public InetAddress getAddress ()
 public int getPort ()
 public int getLength ()
 public byte[] getData ()
 public void setLength(int length)

• Konvertierung des Byte-Array in einen String String s = **new** String(**byte[]** b, **int** from, **int** len)

3 Ein- und Ausgabe

3.1 Byte-Streams ausgeben / einlesen 3.1.1 BufferedOutputStream (java.io) • Konstruktoren:

public BufferedOutputStream(OutputStream out)

3.1.2 BufferedInputStream (java.io)

Konstruktoren:
 public BufferedInputStream(InputStream in)

Methoden:

3.2 Aus- und Eingabe 3.2.1 PrintWriter (java.io)

Konstruktor:
 public PrintWriter(OutputStream out)

Methoden:
 public void flush()
 public void close()
 public void print(String s)
 public void println(String s)
 public void write(char[] buf)
 public void write(int c)

3.2.2 BufferedReader (java.io)

Konstruktor:
 public BufferedReader(Reader in)

• Methode: **public** String readLine() **throws** IOExceptionPrintWriter // (null = Stream-Ende)

3.2.3 InputStreamReader (java.io)

• Konstruktor: **public** InputStreamReader(InputStream in)

3.3 Dateiverarbeitung 3.3.1 Bytes schreiben / einlesen 3.3.1.1 FileOutputStream (java.io)

Konstruktor:

public FileOutputStream(String name) throws FileNotFoundException

Methoden:

public void write(int b) throws IOException public void write(byte[] b) throws IOException public void flush() throws IOException public void close() throws IOException

3.3.1.2 FileInputStream (java.io)

Konstruktor

public FileInputStream(String name) throws

FileNotFoundException

· Methoden:

public int read() throws IOException
public void close() throws IOException

3.3.2 Strings schreiben / einlesen

3.3.2.1 FileWriter (java.io)

Konstruktoren:
 public FileWriter(File f) throws IOException
 public FileWriter(String fname) throws IOException

Methoden:

public void write(String str) throws IOException public void flush() throws IOException public void close() throws IOException

3.3.2.2 FileReader (java.io)

Konstruktor:

public FileReader(String fileName) throws

FileNotFoundException

Methoden:

public void close() throws IOException
public int read() throws IOException

4 Weitere Klassen

4.1 InetAddress (java.net)

public static InetAddress getLocalHost() throws
UnknownHostException

4.2 URL (java.net)

Konstruktor: public URL(String spec) throws

MalformedURLException

• Methoden:

public String getHost()
public String getFile()

4.3 String

Konstruktor:

public String(byte[] bytes, int offset, int length)

Methoden:

public byte[] getBytes()
public boolean startsWith(String prefix)
public String[] split(String regex, int limit)
public int indexOf(String str)

public int indexOf(String str, int fromIndex)

public String substring(int beginIndex)

public String substring(int beginIndex, int endIndex)

// The resulting substring starts at beginIndex and // extends to the character at (endIndex – 1)

4.4 SemaphoreKonstruktor:

public Semaphore(int permits, boolean fair)

• Methoden:

public void acquire() throws InterruptedException
public void release()

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