

JAVA - DATAOUTPUTSTREAM

http://www.tutorialspoint.com/java/java_dataoutputstream.htm

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The `DataOutputStream` stream let you write the primitives to an output source.

Following is the constructor to create a `DataOutputStream`.

```
DataOutputStream out = new OutputStream(out);
```

Once you have `DataOutputStream` object in hand, then there is a list of helper methods, which can be used to write the stream or to do other operations on the stream.

SN Methods with Description

- 1 public final void writebyte[]w, intoff, intlen throws IOException**
Writes len bytes from the specified byte array starting at point off , to the underlying stream.
- 2 Public final int writebyte[]bthrows IOException**
Writes the current number of bytes written to this data output stream. Returns the total number of bytes write into the buffer.
- 3 a public final void writeBooleanthrows IOException, b public final void writeBytethrows IOException, c public final void writeShortthrows IOException d public final void writeIntthrows IOException**
These methods will write the specific primitive type data into the output stream as bytes.
- 4 Public void flushthrows IOException**
Flushes the data output stream.
- 5 public final void writeBytesStrings throws IOException**
Writes out the string to the underlying output stream as a sequence of bytes. Each character in the string is written out, in sequence, by discarding its high eight bits.

Example:

Following is the example to demonstrate `DataInputStream` and `DataOutputStream`. This example reads 5 lines given in a file `test.txt` and converts those lines into capital letters and finally copies them into another file `test1.txt`.

```
import java.io.*;

public class DataInput_Stream{

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

        //writing string to a file encoded as modified UTF-8
        DataOutputStream dataOut = new DataOutputStream(new
        FileOutputStream("E:\\file.txt"));
        dataOut.writeUTF("hello");

        //Reading data from the same file
        DataInputStream dataIn = new DataInputStream(new FileInputStream("E:\\file.txt"));
```

```
while(dataIn.available(>0)){  
    String k = dataIn.readUTF();  
    System.out.print(k+" ");  
}  
  
}
```

Here is the sample run of the above program:

```
THIS IS TEST 1 ,  
THIS IS TEST 2 ,  
THIS IS TEST 3 ,  
THIS IS TEST 4 ,  
THIS IS TEST 5
```

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