

XSTREAM - WRITING JSON USING XSTREAM

http://www.tutorialspoint.com/xstream/xstream_json.htm

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XStream supports JSON by initializing XStream object with an appropriate driver. XStream currently supports JettisonMappedXmlDriver and JsonHierarchicalStreamDriver.

Let us now test the code with json handling in XStream.

Create a java class file named XStreamTester in

C:\>XStream_WORKSPACE\com\tutorialspoint\xstream.

File: XStreamTester.java

```
package com.tutorialspoint.xstream;

import java.io.Writer;

import com.thoughtworks.xstream.XStream;
import com.thoughtworks.xstream.annotations.XStreamAlias;
import com.thoughtworks.xstream.io.HierarchicalStreamWriter;
import com.thoughtworks.xstream.io.json.JsonHierarchicalStreamDriver;
import com.thoughtworks.xstream.io.json.JsonWriter;

public class XStreamTester {
    public static void main(String args[]){

        XStreamTester tester = new XStreamTester();
        XStream xstream = new XStream(new JsonHierarchicalStreamDriver() {

            public HierarchicalStreamWriter createWriter(Writer writer) {
                return new JsonWriter(writer, JsonWriter.DROP_ROOT_MODE);
            }
        });

        Student student = new Student("Mahesh", "Parashar");

        xstream.setMode(XStream.NO_REFERENCES);
        xstream.alias("student", Student.class);

        System.out.println(xstream.toXML(student));
    }
}

@XStreamAlias("student")
class Student {

    private String firstName;
    private String lastName;

    public Student(String firstName, String lastName) {
        this.firstName = firstName;
        this.lastName = lastName;
    }

    public String getFirstName() {
        return firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public String toString(){
        return "Student [ firstName: "+firstName+", lastName: "+ lastName+ " ]";
    }
}
```

Verify the Result

Compile the classes using **javac** compiler as follows:

```
C:\XStream_WORKSPACE\com\tutorialspoint\xstream>javac XStreamTester.java
```

Now run the XStreamTester to see the result:

```
C:\XStream_WORKSPACE\com\tutorialspoint\xstream>java XStreamTester
```

Verify the output as follows:

```
{
  "firstName": "Mahesh",
  "lastName": "Parashar"
}
```