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## JAXB Marshalling – Convert Java Object To Xml Example Using One Pojo

Marshalling is the process of converting java object into xml file. Let us discuss JAXB marshalling process with below example. The marshal() method of JAXB Marshaller is used for marshalling process.

### **Steps:**

1. Create a pojo class.
2. create JAXB context instance.
3. Create Marshaller instance using JAXB context.
4. Call marshal() method for marshalling process.

### **Example explanation:**

In below example we have created a Student.java pojo class. Student class is annotated with @XmlRootElement annotation, so Student will be the root element of the xml. Setter methods of name, className and rollNo properties are annotated with @XmlElement annotation, so these properties will be the elements of xml. Setter of age property is annotated with @XmlTransient annotation, so it will not be included in xml. Setter of id is annotated with @XmlAttribute, So it will be the attribute of the root element in xml file.

### **Example:**

#### **Student.java**

```
import javax.xml.bind.annotation.XmlAttribute;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlTransient;

/**
 * This class represents a Student.
 * @author javawithease
 */
@XmlRootElement
public class Student {
    private String name;
    private String rollNo;
    private String className;
    private int age;
    private int id;

    //Default constructor
    public Student(){

    }

    //Parameterised constructor
    public Student(String name, String rollNo,
        String className, int age, int id){
        this.name = name;
        this.rollNo = rollNo;
        this.className = className;
        this.age = age;
        this.id = id;
    }

    public String getName() {
        return name;
    }

    @XmlElement
    public void setName(String name) {
        this.name = name;
    }

    public String getClassName() {
        return className;
    }

    @XmlElement
    public void setClassName(String className) {
        this.className = className;
    }

    public String getRollNo() {
        return rollNo;
    }

    @XmlElement
    public void setRollNo(String rollNo) {
```

```

        this.rollNo = rollNo;
    }

    public int getAge() {
        return age;
    }

    @XmlTransient
    public void setAge(int age) {
        this.age = age;
    }

    public int getId() {
        return id;
    }

    @XmlAttribute
    public void setId(int id) {
        this.id = id;
    }
}

```

## JAXBTest.java

```

import java.io.FileOutputStream;
import javax.xml.bind.JAXBContext;
import javax.xml.bind.Marshaller;

/**
 * This is test class for Marshalling.
 * @author javawithease
 */
public class JAXBTest {
    public static void main(String args[]){
        try {
            //Create Student object
            Student student =
                new Student("jai", "MCA/07/06", "MCA final", 27, 6);

            //create JAXB context
            JAXBContext context = JAXBContext.newInstance(Student.class);
            //Create Marshaller using JAXB context
            Marshaller marshaller = context.createMarshaller();
            marshaller.setProperty(Marshaller.JAXB_FORMATTED_OUTPUT, true);

            //Do the marshal operation
            marshaller.marshal(student,
                new FileOutputStream("D:\\Student.xml"));
            System.out.println("java object converted to xml successfully.");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

## Output:

```
java object converted to xml successfully.
```

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