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|  | **JAXB Example** |
|  | **Java Architecture for XML Binding** (**JAXB**) provides API for converting Object to XML and XML to Object easily. JAXB was developed as a separate project but it was used widely and finally became part of JDK in Java 6. |
|  | **JAXB Marshalling**: Converting a Java Object to XML. |
|  | **JAXB Unmarhsalling**: Converting XML to Java Object. |
|  | Using JAXB is very easy and it uses [java annotations](http://www.journaldev.com/721/java-annotations-example-tutorial). We need to annotate Java Object to provide instructions for XML creation and then we have to create Marshaller to convert Object to XML. |
|  | Unmarshaller is used to convert XML to java Object. |
|  | JAXBContext is the entry point for JAXB and provides methods to get marshaller and unmarshaller object. |
|  | Some basic and useful JAXB annotations are: |
|  | 1. **@XmlRootElement**: This is a must have annotation for the Object to be used in JAXB. It defines the root element for the XML content. |
|  | 2. **@XmlType**: It maps the class to the XML schema type. We can use it for ordering the elements in the XML. |
|  | 3. **@XmlTransient**: This will make sure that the Object property is not written to the XML. |
|  | 4. **@XmlAttribute**: This will create the Object property as attribute. |
|  | 5. **@XmlElement(name = “abc”):** This will create the element with name “abc”. |
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|  | JAXB Example |
|  | It is a simple JAXB example program to demonstrate the use of JAXB marshalling and unmarshalling. |
|  | 1.png |
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|  | 14.png |
|  | 15.png |
|  | Employee is a normal java bean with private fields and their getters and setters. Notice the use of JAXB annotations to define root element, element name, elements order and transient property. |
|  | Here is a test JAXB example program showing **JAXB Marshalling** and **JAXB Unmarshalling**. |
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|  | 23.png |
|  | 24.png |
|  | Above program creates following jaxb-emp.xml file. |
|  | 25.png |
|  | Check that XML file don’t have password field and we get following output when same XML file is unmarshalled to Object. |
|  | 26.png |