JAXB Examples -Annotation based -by Mr. RAGHU



```
1. Model class:-
package com.app;
import java.util.Map;
import java.util.Set;
import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorTvpe:
import javax.xml.bind.annotation.XmlAttribute;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlElementWrapper;
import javax.xml.bind.annotation.XmlRootElement;
@XmlRootElement
@XmlAccessorType(XmlAccessType.FIELD)
public class Employee {
    //@XmlTransient
   @XmlAttribute
    private int empId;
    @XmlElement(name = "employee-name",required = true)
    private String empName;
    @XmlElement(name="employee-salary")
    private double empSal;
    @XmlElement(name = "address")
    private Address addr;
    @XmlElementWrapper(name = "projects")
    @XmlElement(name = "proj-name")
    private Set<String> projs;
```

```
@XmlElementWrapper(name = "proj-version")
    private Map<String,Integer> versions;
    public Map<String, Integer> getVersions() {
         return versions;
    public void setVersions(Map<String, Integer>
versions) {
         this.versions = versions;
    public Set<String> getProjs() {
         return projs;
    public void setProjs(Set<String> projs
         this.projs = projs;
    public Address getAddr() {
         return addr;
    public void setAddr(Address addr)
         this.addr = addr;
    public int getEmpId()
         return empId;
    public void setEmpId(int empId) {
         this.empId = empId;
    public String getEmpName() {
         return empName;
    public void setEmpName(String empName) {
         this.empName = empName;
    public double getEmpSal() {
         return empSal;
    public void setEmpSal(double empSal) {
         this.empSal = empSal;
    @Override
    public String toString() {
```

```
return "Employee [empId=" + empId + ", empName="
+ empName + ", empSal=" + empSal + ", addr=" + addr
                   + ", projs=" + projs + ", versions=" +
versions + "]";
}
2. Test class:-
package com.app;
import java.io.File;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import javax.xml.bind.JAXBContext;
import javax.xml.bind.Marshaller;
import javax.xml.bind.Unmarshaller;
   @author RAGHU
public class MarshalTest {
     public static void main(String[] args) {
         objectToXml();
         xmlToObject();
    public static void xmlToObject() {
         try {
              JAXBContext
jb=JAXBContext.newInstance(Employee.class);
              Unmarshaller um=jb.createUnmarshaller();
              Employee emp=(Employee) um.unmarshal(new
File("d:/myxmls/emp.xml"));
              System.out.println(emp);
```

```
} catch (Exception e) {
              e.printStackTrace();
     }
    public static void objectToXml() {
         try {
              Address addr=new Address();
              addr.setAid(15);
              addr.setHno("4-44");
              addr.setLoc("HYD");
              Employee e=new Employee();
              e.setEmpId(10);
              e.setEmpName("A");
              e.setEmpSal(3.3);
              e.setAddr(addr);
              Set<String> projs=new HashSet<>();
              projs.add("HTC1");
              projs.add("HTC2");
              projs.add("HTC3");
              e.setProjs(projs);
              Map<String,Integer> map=new HashMap<>();
              map.put("V11", 1);
              map.put("AA", 2);
              map.put("BB", 3);
              e.setVersions(map);
              JAXBContext
context=JAXBContext.newInstance(Employee.class);
              Marshaller m=context.createMarshaller();
              m.marshal(e, new File("d:/myxmls/emp.xml"));
              System.out.println("done");
         } catch (Exception e) {
              e.printStackTrace();
         }
```

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