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Creating a Java Bean:
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StudentBean.java
import java.io.*;
public class StudentBean implements Serializable{
   private int id;
   private String name;
   public void setId(int id) {
         this.id=id;
   public void setName(String name) {
         this.name=name;
   public int getId() {
        return id;
   public String getName() {
        return name;
   }
}
Accessing Java Bean
Test.java
public class Test {
   public static void main(String[] args) {
         //accessing info from bean
        StudentBean sb=new StudentBean();
        sb.setId(101);
        sb.setName("Ram");
        System.out.println("Id: "+sb.getId());
         System.out.println("Name: "+sb.getName());
   }
}
using PropertyDescriptor)
import java.beans.*;
import java.io.Serializable;
//create a property set of Fruit class
class Fruit implements Serializable{
     private String name;
     private double price;
     public void setName(String name) {
           this.name=name;
     public String getName() {
           return name;
      }
```

```
public void setPrice(double price) {
           this.price=price;
     public double getPrice() {
           return price;
}
//Accessing properties using Property Descriptor
public class BeanExample {
   public static void main(String[] args) throws Exception {
        BeanInfo beanInfo=Introspector.getBeanInfo(Fruit.class);
        PropertyDescriptor pd[]=beanInfo.getPropertyDescriptors();
        System.out.println("Properties:");
        for(int i=0;i<pd.length;i++) {</pre>
              System.out.println("\t"+pd[i].getName());
        }
   }
}
using EventSetDescriptor)
import java.beans.*;
import java.io.Serializable;
import java.awt.*;
import java.awt.event.*;
//create a property set of Fruit class
class Fruit extends Canvas implements Serializable{
     //declaring mouse event
     public Fruit() {
           addMouseListener(new MouseAdapter() {
                 public void MousePressed(MouseEvent me) {
                      //your stuffs on mouse pressed
           });
     }
}
//Accessing properties using Property Descriptor
public class BeanExample {
   public static void main(String[] args) throws Exception {
        BeanInfo beanInfo=Introspector.getBeanInfo(Fruit.class);
        EventSetDescriptor ed[]=beanInfo.getEventSetDescriptors();
        System.out.println("Events:");
        for(int i=0;i<ed.length;i++) {</pre>
              System.out.println("\t"+ed[i].getName());
        }
   }
}
```

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using MethodDescriptor)
```

```
import java.beans.*;
import java.io.Serializable;
//create a property set of Fruit class
class Fruit implements Serializable{
     private String name;
     private double price;
     public void setName(String name) {
           this.name=name;
     public String getName() {
           return name;
     public void setPrice(double price) {
           this.price=price;
     public double getPrice() {
           return price;
}
//Accessing properties using Property Descriptor
public class BeanExample {
   public static void main(String[] args) throws Exception {
        BeanInfo beanInfo=Introspector.getBeanInfo(Fruit.class);
        MethodDescriptor md[]=beanInfo.getMethodDescriptors();
        System.out.println("Methods:");
        for(int i=0;i<md.length;i++) {</pre>
              System.out.println("\t"+md[i].getName());
        }
   }
}
```

extending SimpleBeanInfo class)

Colors.java

```
import java.awt.*;
import java.awt.event.*;
import java.io.Serializable;

public class Colors implements Serializable {
    private int id;
    private String name;

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

    public int getId() {
        return id;
    }
```

```
}
    public void setName(String name) {
     this.name=name;
    public String getName() {
     return name;
}
ColorsBeanInfo.java
import java.beans.*;
public class ColorsBeanInfo extends SimpleBeanInfo{
   public PropertyDescriptor[] getPropertyDescriptors() {
         try {
              PropertyDescriptor name=new PropertyDescriptor
                          ("name", Colors.class);
              PropertyDescriptor pd[]= {name};
              return pd;
         }catch(Exception ex) {
              System.out.println(ex.toString());
        return null;
   }
}
IntroSpectorDemo.java
import java.awt.*;
import java.beans.*;
public class IntroSpectorDemo {
   public static void main(String[] args) throws Exception {
        BeanInfo beanInfo=Introspector.getBeanInfo(Colors.class);
         System.out.println("Properties:");
         PropertyDescriptor pd[]=beanInfo.getPropertyDescriptors();
         for(int i=0;i<pd.length;i++) {</pre>
              System.out.println("\t"+pd[i].getName());
}
```