**Java Bean:**

A java bean is a reusable software component model based on sun’s java bean specification that can be

manipulated visually in a builder tool.

**Advantages of Java Beans:**

The java beans posses the property of “Write once and run anywhere”.

Beans can work in different local platforms.

Beans have the capability of capturing the events sent by other objects and vice versa enabling object

communication.

The properties, events and methods of the bean can be controlled by the application developer.

Beans can be configured with the help of auxiliary software during design time.

Configuration setting of a bean can be saved in persistent storage and restored later.

**Persistence**:- Is the ability of JavaBean to save its state to disk or storage device and restore the saved state

when the JavaBean is reloaded.

**Communication**:-Is the ability of JavaBean to notify change in its properties to other JavaBeans or the

container.

**Introspection**:- Is the ability of a JavaBean to allow an external application to query the properties,

methods, and events supported by it.

**Beans Development Kit (BDK) and Bean Builder**

Both are development environment to create, configure, and test JavaBeans.

**Normal Java class and a java bean**

A JavaBean is just a normal Java class that conforms to a number of conventions:  
  
- it should have a public default constructor (i.e. a constructor that takes no arguments)  
- it should be serializable  
- it has getter and setter methods to get and set its properties

A simple java bean class example:

Import java.io.\*;

public class Person implements Serializable

{

private String name;

private int age;

private double salary;

public Person()

{

}

public void setName(String name)

{

this.name=name;

}

public void setAge(int age)

{

this.age=age;

}

public void setSalary(double salary)

{

this.salary=salary;

}

public String getName()

{

return this.name;

}

public int getAge()

{

return this.age;

}

public double getSalary()

{

return this.salary;

}

}