Wrapper class in Java

Wrapper class in java provides the mechanism to convert primitive into object and object into primitive.

Since J2SE 5.0, autoboxing and unboxing feature converts primitive into object and object into primitive automatically. The automatic conversion of primitive into object is known and autoboxing and vice-versa unboxing.

One of the eight classes of java.lang package are known as wrapper class in java. The list of eight wrapper classes are given below:

|  |  |
| --- | --- |
| **Primitive Type** | **Wrapper class** |
| boolean | Boolean |
| char | Character |
| byte | Byte |
| short | Short |
| int | Integer |
| long | Long |
| float | Float |
| double | Double |

**Wrapper class Example: Primitive to Wrapper**

public class WrapperExample1{

public static void main(String args[]){

//Converting int into Integer

int a=20;

Integer i=Integer.valueOf(a);//converting int into Integer

Integer j=a;//autoboxing, now compiler will write Integer.valueOf(a) internally

System.out.println(a+" "+i+" "+j);

}}

**Output:** 20 20 20

**Wrapper class Example: Wrapper to Primitive**

public class WrapperExample2{

public static void main(String args[]){

//Converting Integer to int

Integer a=new Integer(3);

int i=a.intValue();//converting Integer to int

int j=a;//unboxing, now compiler will write a.intValue() internally

System.out.println(a+" "+i+" "+j);

}}

**Output**: 3 3 3