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 as autoboxing and vice-versa unboxing.

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

|  |  |
| --- | --- |
| **Primitive Type** | **Wrapper class** |
| boolean | [Boolean](https://www.javatpoint.com/java-boolean) |
| char | [Character](https://www.javatpoint.com/post/java-character) |
| byte | [Byte](https://www.javatpoint.com/java-byte) |
| short | [Short](https://www.javatpoint.com/java-short) |
| int | [Integer](https://www.javatpoint.com/java-integer) |
| long | [Long](https://www.javatpoint.com/java-long) |
| float | [Float](https://www.javatpoint.com/java-float) |
| double | [Double](https://www.javatpoint.com/java-double) |

Wrapper class Example: Primitive to Wrapper

1. **public** **class** WrapperExample1{
2. **public** **static** **void** main(String args[]){
3. //Converting int into Integer
4. **int** a=20;
5. Integer i=Integer.valueOf(a);//converting int into Integer
6. Integer j=a;//autoboxing, now compiler will write Integer.valueOf(a) internally
8. System.out.println(a+" "+i+" "+j);
9. }}

Output:

20 20 20

Wrapper class Example: Wrapper to Primitive

1. **public** **class** WrapperExample2{
2. **public** **static** **void** main(String args[]){
3. //Converting Integer to int
4. Integer a=**new** Integer(3);
5. **int** i=a.intValue();//converting Integer to int
6. **int** j=a;//unboxing, now compiler will write a.intValue() internally
8. System.out.println(a+" "+i+" "+j);
9. }}

Output:

3 3 3