# Wrapper class

# Wrapper class

- Vectors cannot handle primitive data types like int,float,char and double.

- Primitive data types may be converted into object types by using the wrapper classes contained in the **java.lang** package.

- A wrapper class is a class that encapsulates types, so that those types can be used to create object instances and methods in another class that need those types.

# Wrapper classes for converting simple types

| Simple type | Wrapper class |
|-------------|---------------|
| boolean | Boolean |
| char | Character |
| int | Integer |
| double | Double |
| float | Float |
| long | Long |

# converting primitive nos to object number using constructor methods

| Constructor  calling | Conversion action |
|---|---|
| Integer IntVal=new Integer(i) | Primitive integer to Integer object |
| Float FloatVal=new Float(f) | Primitive float to Float object |
| Double DoubleVal=new Double(d) | Primitive double to Double object |
| Long LongVal=new Long(l) | Primitive long to Long object |

# Converting object numbers to primitive numbers using typeValue() method

| Method  calling | Conversion action |
|---|---|
| int i=IntVal.intValue(); | Object to Primitive integer |
| float f=FloatVal.floatValue(); | Object to Primitive float |
| double d=DoubleVal.doubleValue(); | Object to Primitive double |
| long l=LongVal.longValue(); | Object to Primitive long |

# Converting numbers to Strings Using **toString()** method

| Method calling | Conversion action |
|---|---|
| str=Integer.toString(i); | Primitive integer to string |
| str=Float.toString(f); | Primitive float to string |
| str=Double.toString(d); | Primitive double to string |
| str=Long.toString(l); | Primitive long to string |

# Converting String objects to numeric objects using the static method valueOf()

| Method  calling | Conversion action |
|---|---|
| DoubleVal=Double.valueOf(str) | Converts string to Double object |
| FloatVal=Float.valueOf(str) | Converts string to Float object |
| IntVal=Integer.valueOf(str) | Converts string to Integer object |
| LongVal=Long.valueOf(str) | Converts string to Long object |

# Converting numeric strings to primitive nos using parsing methods

| Method  calling | Conversion action |
|---|---|
| int i=Integer.parseInt(str) | Converts string to primitive integer |
| long i=Long.parseLong(str) | Converts string to primitive long |