

Encapsulation

- Process of binding data and method together
- Encapsulation is necessary as it provides security
- Class is an example of encapsulation, where we bin data and methods together.

Wrapper Class

- For each primitive data type, we have a predefined class in java,
- These classes are called Wrapper class.
- We can use these classes to store the data by creating a reference and their object.
- eg: Integer i = new Integer(5);

Boxing/Wrapping and Unboxing

- Process of converting primitive data type to object is called Boxing or Wrapping.
- Process of converting Object type to Primitive is called Unboxing.
- Boxing can be done automatically without creating an object, this process is called autoboxing.
- Unboxing is can also be done automatically, this is called autounboxing.

```
int a=10;
Integer ii = new Integer(a);    // Boxing
int b= ii.intValue();           // Unboxing

Integer jj= 5;                  // AutoBoxing
int j = jj;                     // AutoUnboxing
```

Advantages of Wrapper Classes

- Wrapper classes come with many important functions
- Many important features can be implemented in java only using an object, so conversion of primitive type to object is necessary.