Building Blocks

Packages

Packages

- Java classes are stored in different packages
- you can think of them as folders in which the classes are stored
- in order to use a class, you must import a package in your program
- name of the package usually looks something like
 - com.udemy.javacourse.ocp
 - this means that there is a folder "com", in which there is a subfolder "udemy", with subfolder "javacourse", with subfolder "ocp" containing classes
 - exam creators like to use more generic names like a.b.c

```
import java.util.kandom;
public class NumberGenerator {
 public static void main(String[] args) {
   Random randomNumber = new Random();
   System.out.println(randomNumber.nextInt(100));
// option without using import is to use a fully qualified name of the class
java.util.Random randomNumber = new java.util.Random();
```

```
// using wildcards
import java.util.Random
                        // imports class Random
import java.util.*
                          // imports all classes in java.util package
                          // but not in subpackages (subfolders) !!
import java.util.*.*. // DOES NOT COMPILE
// conflicts
import java.util.Date;
import java.sql.Date; // DOES NOT COMPILE
  solution
import java.util.Date;
import java.sql.*; // Java will use java.util.Date
```

```
// using custom packages
package com.udemy.oca // corresponds to a folder (must be in the first line!)
public class Oca { }
package com.udemy.ocp // another folder
import com.udemy.oca;
public class Ocp {
 Oca myOcaInstance = new Oca();
```