

## Introductory Programming and Object-oriented Concepts Using Java

### Units 7 Predefined classes Revision



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## Packages

- Similar to folders
- Java class libraries organised as packages
  - java.lang : the default package. Automatically imported.
  - Other packages must be imported to use it. E.g.
    - java.util
      - Random class
      - Scanner class
    - Import using
 

```
import java.util.Random; OR
import java.util.*;
```



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## Predefined classes

- Need to read documentation to use it
- Some classes require objects to be instantiated
  - E.g. Random class. Must use `Random r = new Random();`
- Some classes are just collection of static methods. No need to instantiate objects.
  - E.g. Math class.



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## Predefined Classes - Examples

- String class
- StringBuffer class
- Point class
- Dimension class
- ...many more



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## Wrapper classes

- Classes that wraps around primitive types
- Allow objects of the primitive type
- E.g. Integer x = new Integer(123);  
x.intValue(); returns 123  
x.toString(); returns the value as a String
- Wrapper classes exists for Double, Character, Boolean



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## ICT131 Exam

- Exam
  - 2 hrs
  - 4 questions
  - CLOSE book
- Topics
  - All topics from Seminar 1 to 5



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