

## Collections

### Workshop 9

In this workshop, you'll learn:

- Collections framework
- ArrayList collection

Create a class named DictionaryWord as:

DictionaryWord
- word: String - meanings: String
+ DictionaryWord (String word, String meanings) + getWord(): String + setWord (String word): void + getMeanings(): String + setMeanings(String meanings): void

Write a program with the following requirements:

Creates 8 DictionaryWord objects with:

- Word and meanings as the table:

<i><b>word</b></i>	<i><b>Meanings</b></i>
bank robber	Steals money from a bank
burglar	Breaks into a home to steal things
forgery	Makes an illegal copy of something
hacker	Breaks into a computer system
hijacker	Takes control of an airplane
kidnapper	Holds someone for ransom money
mugger	Attacks and steals money from someone
murderer	Kills another person

- Ensure that there is no duplicate DictionaryWord objects (02 DictionaryWord objects a and b are equal when a.word=b.word).

Displays all DictionaryWord in ascending order of word with the format as:

<<no>.<<word>>

<<meanings>>

<<no>.<<word>>

<<meanings>>

Where: <<no>>=1,2...

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Hint:

- class DictionaryWord implements Comparable to order 2 DictionaryWord objects.
- override equals(..) method to compare 2 DictionaryWord objects.
- override toString()
- use ArrayList and write the add method, which does not permit duplicate words.
- use support class Collections to sort DictionaryWord objects.