**Collections**

**Workshop 9**

**In this workshop, you’ll learn:**

* Collections framework
* Set 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:

|  |  |
| --- | --- |
| **word** | **meanings** |
| bank robber | Steals money from a bank |
| burglar | Breaks into a home to steal things |
| forger | 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…

Hint:

* class DictionaryWord implements Comparable to order 2 DictionaryWord objects.
* override equals(..) method to compare 2 DictionaryWord objects.
* override toString()
* use Set to ensure no duplicate.
* use support class Collections to sort DictionaryWord objects.