

# Java Object-Oriented Concepts Unit

## Lesson 3 Lab 1: State Capitals



SOFTWARE-GUILD

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## Lesson 3 Lab 1: State Capitals

### Requirements

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In this lab, you will write a simple program that holds all of the states and their corresponding capitals in a HashMap.

#### Your program must have the following features:

- This program will be a Java Console Application called StateCapitals.
- Create a HashMap to hold the names of all the states and their corresponding capital names (state name is the key, capital name is the value).
- Load the HashMap with the each State/Capital pair (this should be hard-coded).
- Print all of the state names to the screen. (Hint: get the keys from the map and then print each state name one by one.)
- Print all of the capital names to the screen. (Hint: get the values from the map and then print each capital name to the screen one by one.)
- Print each state along with its capital to the screen. (Hint: use the key set to get each value from the map one by one printing both the key and value as you go.)

#### Sample Output (order may vary):

STATES:

=====

Alabama

Alaska

Arizona

Arkansas

...

...

CAPTIALS:

=====

Montgomery

Juneau

Phoenix

Little Rock

...

...

STATE/CAPTIAL PAIRS:

=====

Alabama - Montgomery

Alaska - Juneau

Arizona - Phoenix

Arkansas - Little Rock