## ## Code Explanation and Documentation

#### ### 1. TestClass.java

- 1. `main` Method: This is the main class of the Spring application. It loads the Spring container (`ApplicationContext`) using the XML configuration file `standalonecollectionconfig.xml` located in the package `com.springcore.standalone.collections`.
- 2. `context.getBean()`: The `context.getBean("Emp1")` method retrieves the `Employee` bean with the name "Emp1" from the Spring container.
- 3. Display Employee Details: The properties of the retrieved `Employee` object are printed to the console using the getter methods of the `Employee` class.

#### ### 2. Employee.java

- 1. Properties: The 'Employee' class represents an employee entity with five properties: 'name', 'phones', 'addresses', 'courses', and 'addressProps'. The 'phones', 'addresses', and 'courses' properties are collections ('List', 'Set', and 'Map', respectively).
- 2. Getter/Setter Methods: The class provides getter and setter methods for all properties, allowing Spring to set the property values during the dependency injection process.
- 3. Constructor: The class has both a parameterized constructor and a default constructor. The parameterized constructor is used to initialize the properties during object creation.
- 4. `toString()` Method: The overridden `toString()` method returns a formatted string representation of the `Employee` object, displaying all its properties.

# ### 3. standalonecollectionconfig.xml

- 1. XML Configuration: This file defines the Spring beans for the application using the '<br/>beans' element.
- 2. Util Elements: The XML file uses Spring's `<util:list>`, `<util:set>`, `<util:map>`, and `<util:properties>` elements to define lists, sets, maps, and properties, respectively.
- 3. Property Values: The elements within the util elements (e.g., `<value>`, `<entry>`, and `<prop>`) are used to define the individual elements of the collections and properties.
- 4. Employee Bean: The '<bean>' element defines the 'Employee' bean with the name "Emp1" and associates it with the 'com.springcore.standalone.collections.Employee' class.

5. Property Injection: The `<property>` elements are used to inject the values of the properties of the `Employee` bean. The values for `name`, `phones`, `addresses`, `courses`, and `addressProps` properties are referenced from the previously defined util elements.

## ### Summary

The provided code demonstrates a Spring application that uses standalone collections ('List', 'Set', 'Map', and 'Properties') to configure the properties of the 'Employee' class. The application loads the Spring container using the XML configuration file, retrieves the 'Employee' bean, and displays its properties on the console. The XML configuration file contains util elements to define and initialize the collections and properties of the 'Employee' bean. With this configuration, the 'Employee' object is correctly populated with the values of its properties defined in the XML file.