```
// Import necessary Java utilities package
import java.util.*;

class Main {
  public static void main(String[] args) {
    // Create a HashMap that can store any type of key and value (using Object)
    Map<Object,Object> map = new HashMap<>();

    // Adding key-value pairs to the map
    map.put("Apple", 10);
    map.put("Banana", 20);
    map.put("Orange", 30);

    // Print all entries in the map
    System.out.println("Initial entries: " + map.entrySet());

    // Check if map contains a specific key
    System.out.println("Contains key 'Banana'? " + map.containsKey("Banana"));

    // Get value associated with a key
    System.out.println("Value of 'Orange': " + map.get("Orange"));

    // Update operations
    map.put("Orange", 50);  // Overwrites the value for "Orange"
    map.replace("Apple", 10);  // Replaces value for "Apple" only if it exists
    map.replace("Banana", 20, 30);  // Replaces value for "Banana" only if
current value is 20
```

```
        // Print entries after updates
        System.out.println("Entries after updates: " + map.entrySet());

        // Remove operations
        map.remove("Apple");  // Removes the "Apple" entry regardless of its value
        map.remove("Banana", 40);  // Removes "Banana" only if its value is 40
(won't work here)

        // Print entries after removals
        System.out.println("Entries after removals: " + map.entrySet());

        // Create another HashMap
        HashMap<String,Integer> fruits = new HashMap<>();
        fruits.put("Apple", 40);
        fruits.put("Mango", 80);

        // Merge the second map into the first map
        map.putAll(fruits);

        // Print entries after merge
        System.out.println("Entries after merge: " + map.entrySet());

        // Utility methods
        System.out.println("Size: " + map.size());  // Number of key-value pairs
        System.out.println("IsEmpty: " + map.isEmpty());  // Checks if map is empty
        System.out.println("Value of Apple: " + map.getOrDefault("Apple", 0));  //
Gets value or default
```

```
    // Iterate through all entries in the map
    System.out.println("Iterating through entries:");
    for(Map.Entry<Object,Object> entry : map.entrySet()) {
      System.out.println(entry.getKey() + " : " + entry.getValue());
    }

    // Clear all entries from the map
    map.clear();

    // Print size after clearing
    System.out.println("Size after clear: " + map.size());
  }
}
```

Outputs:

```
Initial entries: [Apple=10, Orange=30, Banana=20]
Contains key 'Banana'? true
Value of 'Orange': 30
Entries after updates: [Apple=10, Orange=50, Banana=30]
Entries after removals: [Orange=50, Banana=30]
Entries after merge: [Apple=40, Mango=80, Orange=50, Banana=30]
Size: 4
IsEmpty: false
Value of Apple: 40
```

```
Iterating through entries:
Apple : 40
Mango : 80
Orange : 50
Banana : 30
Size after clear: 0

=== Code Execution Successful ===
```