```
import java.util.HashMap;
import java.util.Map;
public class MapDemo {
  public static void main(String[] args) {
    // Creating a HashMap
    Map<String, Integer> map = new HashMap<>();
    // Adding some key-value pairs to the map
    map.put("john", 25);
    map.put("mary", 30);
    map.put("Charlie", 35);
    // Printing the map
    System.out.println("Map: " + map);
    // Checking if the map contains a particular key
    String key = "mary";
    if (map.containsKey(key)) {
      System.out.println(key + " is present with value " + map.get(key));
    } else {
      System.out.println(key + " is not present in the map.");
    }
    // Removing a key-value pair from the map
    String removeKey = "Charlie";
    int removedValue = map.remove(removeKey);
    System.out.println(removeKey + " was removed with value " + removedValue);
```

```
// Printing the map again
  System.out.println("Map after removal: " + map);
  // Iterating over the keys of the map
  System.out.println("Keys:");
  for (String k : map.keySet()) {
    System.out.println(k);
  }
  // Iterating over the values of the map
  System.out.println("Values:");
  for (int v : map.values()) {
    System.out.println(v);
  }
  // Iterating over the entries of the map
  System.out.println("Entries:");
  for (Map.Entry<String, Integer> entry : map.entrySet()) {
    System.out.println(entry.getKey() + " - " + entry.getValue());
  }
}
```

## OUTPUT:

Map: {Charlie=35, mary=30, john=25}mary is present with value 30Charlie was removed with value 35Map after removal: {mary=30, john=25}Keys:maryjohnValues:3025Entries:mary - 30john - 25