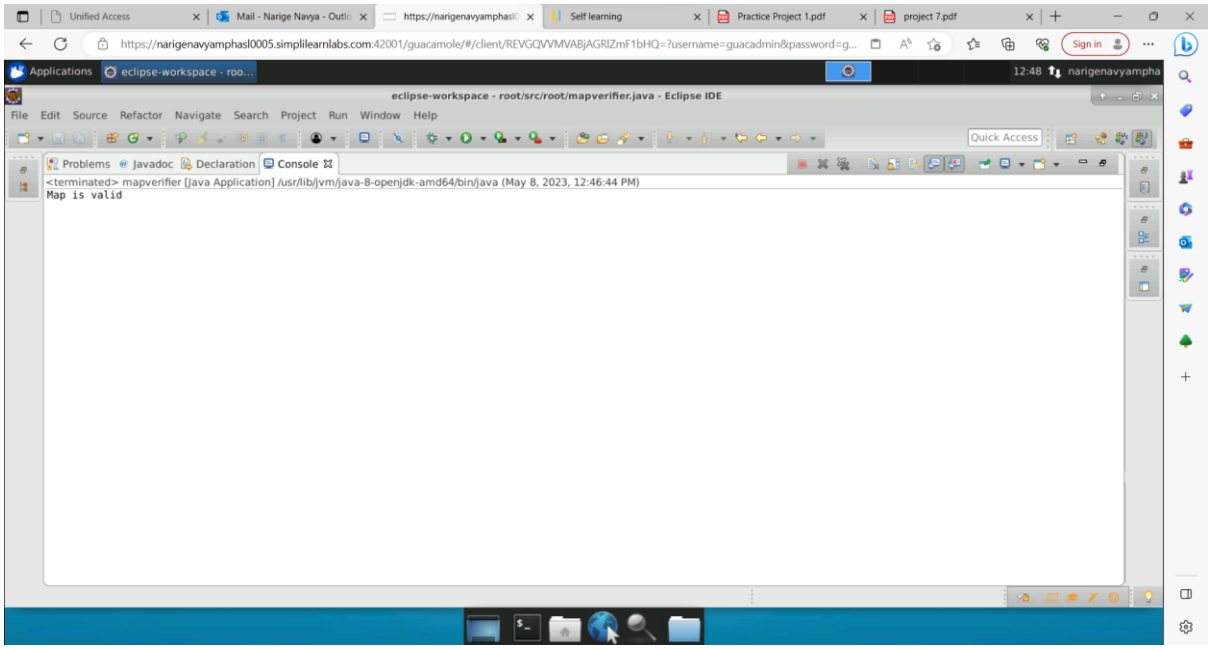
```
package root;

import java.util.HashMap;
import java.util.Map;

public class mapverifier {


	public static void main(String[] args) {
		// Create a new map
			Map<String, Integer> map = new HashMap<>();

		// Add some key-value pairs to the map
		map.put("apple", 1);
		map.put("banana", 2);
		map.put("cherry", 3);

		// Verify that the map contains the expected keys
		if (!map.containsKey("apple") || !map.containsKey("banana") ||
!map.containsKey("cherry")) {
		   System.out.println("Error: map does not contain expected keys");
		   return;
		}

		// Verify that the map has the expected size
		if (map.size() != 3) {
		   System.out.println("Error: map size is not as expected");
		   return;
		}

		// Verify that the map returns the expected values for the keys
```

```
    if (map.get("apple") != 1 || map.get("banana") != 2 || map.get("cherry") != 3) {
        System.out.println("Error: map returns unexpected values for keys");
        return;
    }

    // Remove a key-value pair from the map
    map.remove("banana");

    // Verify that the map no longer contains the removed key
    if (map.containsKey("banana")) {
        System.out.println("Error: map still contains removed key");
        return;
    }

    // Verify that the map size has been updated accordingly
    if (map.size() != 2) {
        System.out.println("Error: map size is not as expected after removal");
        return;
    }

    // Print a message indicating that the map is valid
    System.out.println("Map is valid");
}
```

}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Map is valid