Phase-1 Practice Project: Assisted Practice

6. Writing a program in Java to verify implementations of maps

```
package Mydemo;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.TreeMap;
import java.util.Map;
public class Maps
{
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		System.out.println("HashMap");
		HashMap <Integer, String> hm = new HashMap<>();
		hm.put(1, "Kamal");
		hm.put(2,"Shashi");
		hm.put(3, "Harish");
		System.out.println("The Elements of HashMap are: ");
		for (Map.Entry <Integer, String> m : hm.entrySet())
		{
			System.out.println(m.getKey() + " " + m.getValue());
		}
		System.out.println("\n"); System.out.println("HashTable");
		Hashtable<Integer, String> ht = new Hashtable<>();
		ht.put(1,"Vineeth");
		ht.put(2, "Vamshi");
		ht.put(3, "Krishna");
		System.out.println("The Elements of HashTable are: ");
		for (Map.Entry <Integer, String> k : ht.entrySet())
		{
```

```
                System.out.println(k.getKey() + " " + k.getValue());
            }
            System.out.println("\n"); System.out.println("TreeMap");
            TreeMap<Integer, String> treemap = new TreeMap<>();
            treemap.put(4, "Sathwik");
            treemap.put(5, "Vijay");
            treemap.put(6, "Hruthik");
            System.out.println("The Elements of TreeMap are: ");
            for (Map.Entry <Integer, String> h : treemap.entrySet())
            {
                System.out.println(h.getKey() + " " + h.getValue());
            }

    }
```

```
<terminated> Maps [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe
HashMap
The Elements of HashMap are:
1 Kamal
2 Shashi
3 Harish


HashTable
The Elements of HashTable are:
3 Krishna
2 Vamshi
1 Vineeth


TreeMap
The Elements of TreeMap are:
4 Sathwik
5 Vijay
6 Hruthik
}
```