Hashmap

Assignment 1

```
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Collections;
import java.util.Comparator;

class Tester {

    public static List<String> sortSales(Map<String, Integer> sales) {
        List<Entry<String, Integer>> salesList = new ArrayList<>(sales.entrySet());

        // Sorting the list based on sales in descending order
        Collections.sort(salesList, new Comparator<Entry<String, Integer>>() {
            @Override
            public int compare(Entry<String, Integer> e1, Entry<String, Integer> e2) {
                return e2.getValue().compareTo(e1.getValue());
            }
        });

        // Extracting the employee names after sorting
        List<String> sortedEmployees = new ArrayList<>();
        for (Entry<String, Integer> entry : salesList) {
            sortedEmployees.add(entry.getKey());
```

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        }

        return sortedEmployees;
    }

    public static void main(String args[]) {
        Map<String, Integer> sales = new HashMap<>();
        sales.put("Mathew", 50);
        sales.put("Lisa", 76);
        sales.put("Courtney", 45);
        sales.put("David", 49);
        sales.put("Paul", 49);

        List<String> employees = sortSales(sales);

        System.out.println("Employees in the decreasing order of their
sales\n====================================");
        for (String employeeName : employees) {
            System.out.println(employeeName);
        }
    }
}
```

```
C:\Users\Sarvesh\OneDrive\Desktop>java Tester1
Employees in the decreasing order of their sales
====================================
Lisa
Mathew
David
Paul
Courtney
```