Lab Assignment No: 06

Problem statement: Collections

**Design a java application to demonstrate use of HashMap Collections.**

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Question:

**Design a java application to demonstrate use of HashMap Collections.**

Solution:

import java.util.\*;

public class HashMapProg {

public static void main(String args[]) {

HashMap<Integer, String> map = new HashMap<Integer, String>();

map.put(1, "Chaitanya");

map.put(2, "Abhijeet");

map.put(3, "Prateek");

map.put(4, "Aneesh");

System.out.println("Iterating Hashmap:");

for (Map.Entry m : map.entrySet()) {

System.out.println(m.getKey() + " " + m.getValue());

}

map.put(1, "Sagar"); //trying to insert duplicate key

System.out.println("Iterating Hashmap after trying duplication of key:");

for (Map.Entry m : map.entrySet()) {

System.out.println(m.getKey() + " " + m.getValue());

}

//key-based removal

map.remove(1);

System.out.println("Updated list of elements after key based removal: " + map);

//key-value pair based removal

map.remove(2, "Abhijeet");

System.out.println("Updated list of elements key-value pair based removal: " + map);

//replace

map.replace(4, "Siddharth");

System.out.println("Iterating Hashmap after replacing value of key 4:");

for (Map.Entry m : map.entrySet()) {

System.out.println(m.getKey() + " " + m.getValue());

}

map.replace(3,"Prateek","Padmesh");

System.out.println("Iterating Hashmap after replacing value of key 3 and its old value with new value:");

for (Map.Entry m : map.entrySet()) {

System.out.println(m.getKey() + " " + m.getValue());

}

map.replaceAll((k,v)->"Chaitanya");

System.out.println("Iterating Hashmap after replacing value of all keys with same value:");

for (Map.Entry m : map.entrySet()) {

System.out.println(m.getKey() + " " + m.getValue());

}

}

}

Output:

