**Map-DataStructure**

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A map is a data structure that stores key-value pairs with unique keys, allowing efficient retrieval, insertion, and deletion of values based on their keys.

**Illustration:**

**import java.util.HashMap;**

**public class Hash\_map {**

**public static *void* main(String[] *args*) {**

**HashMap<Integer, Integer> map1 = new HashMap<>();**

**map1.put(1, 100);**

**map1.put(2, 200);**

**System.out.println(map1.get(1));**

**map1.remove(2);**

**System.out.println(map1.containsKey(1));**

**System.out.println();**

**HashMap<String, Integer> map2 = new HashMap<>();**

**map2.put("age", 18);**

**map2.put("cgpa", 10);**

**System.out.println(map2.get("age"));**

**map2.remove("grade");**

**System.out.println(map2.containsKey("age"));**

**System.out.println();**

**HashMap<String, String> map3 = new HashMap<>();**

**map3.put("Name", "Adarsh");**

**map3.put("Residence", "Gittikhadan");**

**System.out.println(map3.get("Name"));**

**map3.remove("Name");**

**System.out.println(map3.containsKey("Residence"));**

**}**

**}**

**OUTPUT:**

