14:08

Introduction
Basic Problems

1. HashSet

- HashSet is a collection of unique elements.
- HashSet doesn't have any sequence of elements.

Syntax:

HashSet<Type> hs = new HashSet<Type>();

Here Type can be of any class.

Basic Operations:

o Add: Used to add elements in hash set.

o Contains: Used to check whether hash set contains a

o Size: Used to get the size of hash set

• Remove: Used to remove the element from the hash set.

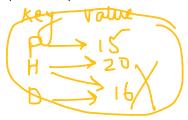
Problem 1. Given two hash sets, return the common elements in them.

2. HashMap

- Data structure that contains key value pair.
- Duplicate values are allowed.



• Duplicate keys are not allowed.



• No order of data, key-value pair are in random order.

Syntax:

HashMap<keyType, valueType> hm = new HashMap<keyType, valueType>();

Basic Operations:

- Add -> hm.put("Vishal", 27);
- Contains -> hm.containsKey("Vishal");
- o Get -> hm.get("Vishal")
- Update -> hm.put("Vishal", 28);
- o Size -> hm.size();
- Remove -> hm.remove("Vishal");
- hm.containsKey(arr.get(i)
- Print ->



```
// print
    // 1. get all keys
    // hm.keySet()-> returns a set of keys of HashMap
    // 2. Use keys to iterate over the map
    for(String state : hm.keySet()){
        System.out.println(state + " -> " + hm.get(state));
    }
```

Problem 1. Given an integer array as input, return the corresponding frequency map.