**import** java.util.\*;

**public** **class** HashMapDemo {

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

{

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

*print*(names);

names.put("vishnu", 10);

names.put("Ashwin", 30);

names.put("Deepthi", 20);

names.put("Honey",05);

System.***out***.println("Size of names is: " + names.size());

*print*(names);

**if** (names.containsKey("vishnu"))

{

Integer a = names.get("vishnu");

System.***out***.println("value for key \"vishnu\" is " + a);

}

Set<String> namekeys = names.keySet();

System.***out***.println("Initial keys : " + namekeys);

Collection<Integer> namevalues = names.values();

System.***out***.println("Initial values : " + namevalues);

names.replace("vishnu", 100);

*print*(names);

names.put("Sweety",25);

Set<String> namekeys1 = names.keySet();

System.***out***.println("Final keys : " + namekeys1);

Collection<Integer> namevalues1 = names.values();

System.***out***.println("Final values : " + namevalues1);

Iterator<Map.Entry<String, Integer>> itr = names.entrySet().iterator();

**while**(itr.hasNext())

{

Map.Entry<String, Integer> entry = itr.next();

System.***out***.println("Key = " + entry.getKey() +

", Value = " + entry.getValue() + " , Hashcode = "+ entry.hashCode());

}

names.remove("vishnu");

HashMap<String, Integer> names2 = **new** HashMap<>();

names2.putAll(names);

System.***out***.println("New HashMap:");

*print*(names2);

names.clear();

*print*(names);

}

**public** **static** **void** print(Map<String, Integer>names)

{

**if** (names.isEmpty())

{

System.***out***.println("map is empty");

}

**else**

{

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

}

}

}