




Day 14

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 Created by	 VIGNESH J
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WeakHashMap

- Performance Overhead
- GC will take care of that
-

```
package ga.veee.day14;

import java.util.*;

public class WeakHashMapDemo {

    public static void main(String[] args) {
        //      Map<String,String > map = new HashMap<String,String>();

        //      Map<String, String> map = new TreeMap<String, String>((o1, o2) -> {
        //          return o2.compareTo(o1);
        //      });

        Map<Emp, String> map = new WeakHashMap<Emp, String>();
        Emp emp1 = new Emp(123);
        Emp emp2 = new Emp(124);
        Emp emp3 = new Emp(125);
        Emp emp4 = new Emp(126);
        map.put(emp1, "Hello");
        map.put(emp2, "Hai");
        map.put(emp3, "World");
        map.put(emp4, "!");

        System.out.println(map);
    }
}
```

```

        emp2 = null;
        System.gc();

        Set<Map.Entry<Emp, String>> s = map.entrySet();
        Iterator<Map.Entry<Emp, String>> iter = s.iterator();
        while (iter.hasNext()) {
            Map.Entry<Emp, String> me = iter.next();
            System.out.println(me.getKey() + ":" + me.getValue());
        }
    }
}

class Emp implements Comparable<Emp> {
    Integer eid;

    public Emp(Integer eid) {
        this.eid = eid;
    }

    @Override
    public String toString() {
        return "" + this.eid;
    }

    @Override
    public int compareTo(Emp o) {
        return eid.compareTo(o.eid);
    }
}

```

Properties

- Like .env
- Key value pair
- Used to read configs / credentials
-

```

package ga.veee.day14;

import java.io.FileInputStream;
import java.io.IOException;
import java.util.Enumeration;
import java.util.Properties;

public class PropertiesDemo {

```

```

public static void main(String[] args) throws IOException {
    Properties properties = new Properties();

    properties.put("key1", "value 1");
    properties.put("key2", "value 2");

    Enumeration e = properties.elements();

    while (e.hasMoreElements()) {
        String value = (String) e.nextElement();
        System.out.println(value);
    }
    System.out.println(properties.getProperty("key1"));

    Properties env = new Properties();

    env.load(new FileInputStream("env.properties"));
    Enumeration en = env.elements();

    while (en.hasMoreElements()) {
        String value = (String) en.nextElement();
        System.out.println(value);
    }
    System.out.println(env.getProperty("key1"));
}
}

```

Internationalisation

-

```

package ga.veee.day14;

import java.util.Locale;
import java.util.ResourceBundle;

public class LanguageDemo {
    public static void main(String[] args) {
        Locale locale = Locale.getDefault();

        System.out.println(locale);

        Locale.setDefault(new Locale("ta"));

        System.out.println(Locale.getDefault());
        locale = Locale.getDefault();
        ResourceBundle rb = ResourceBundle.getBundle("dictionary", locale);
        System.out.println(rb.getString("hello"));
    }
}

```

```
}  
}
```

```
package ga.veee.day14;  
  
import java.util.ListResourceBundle;  
  
public class Dictionary_ta extends ListResourceBundle {  
  
    Object obj[][] = {  
        {"hello", "vanakkam!"},  
        {"name", "ungal peyar"}  
    };  
  
    @Override  
    protected Object[][] getContents() {  
        return obj;  
    }  
}
```

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Observer Patter

- Works on principle of Event - Signal
- Like Pub-Sub
- Single Threaded
-

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IO

```
package ga.veee.day14;

import java.io.FileReader;
import java.io.FileWriter;

public class CopyCommand {
    public static void main(String[] args) throws Exception {
        //FileInputStream fis=new FileInputStream("abc.properties");
        //FileOutputStream fos=new FileOutputStream("copyabc.properties",true);
        try (
            FileReader fis = new FileReader("env.properties");
            FileWriter fos = new FileWriter("copyabc.properties");
        ) {
            //System.out.println(fis.available());

            int i = 0;
            //byte b[]=new byte[8];
            char b[] = new char[8];
            while ((i = fis.read(b)) != -1) { //now i returns the number of bytes read...
                //System.out.print((char)i+"\t");
                System.out.println("No of bytes read.." + i);
                String s = new String(b, 0, i);
                System.out.println("Value is.." + s);
                fos.write(b, 0, i);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
        //fos.close();

        //System.out.println(fis.read()); //-1 denotes EOF in java
    }
}
```

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