

衡水的syscode: HENGSHUI

衡水的secret: hengshui-123

// 生成示例

// 调用密钥工具类生成

```
Map<String,String> signMap = new HashMap<>();
```

```
signMap.put("syscode", "HENGSHUI");
```

```
signMap.put("timestamp", "2019-04-15 15:38:00");
```

```
String sign = SignUtil.getInstance().createSign(signMap, 你的SECRET);
```

// 示例密钥工具类

```
package ****;
```

```
import org.apache.commons.codec.digest.DigestUtils;
```

```
import org.apache.commons.lang3.StringUtils;
```

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
```

```
import java.util.Map;
```

```
import java.util.SortedMap;
```

```
import java.util.TreeMap;
```

```
/**
```

```
 * 签名工具类
```

```
 * @author zengzp
```

```
 */
```

```
public class SignUtil {
```

```
    private Logger logger = LoggerFactory.getLogger(getClass());
```

```
    private SignUtil() {
```

```
}
```

```
private static final class SignUtilHolder {  
    private static final SignUtil instance = new SignUtil();  
}
```

```
public static SignUtil getInstance() {  
    return SignUtilHolder.instance;  
}
```

```
/**
```

```
 * 创建签名
```

```
 *
```

```
 * @param params
```

```
 *      参数
```

```
 * @param signKey
```

```
 *      加密密钥
```

```
 * @return
```

```
 */
```

```
public String createSign(Map<String, String> params, String signKey) {  
    logger.info("createSign params:[{}]", params);  
    SortedMap<String, String> sortedMap = new TreeMap<>(params);  
    StringBuilder toSign = new StringBuilder();  
    toSign.append(signKey);  
    for (String key : sortedMap.keySet()) {  
        String value = params.get(key);  
        if (StringUtils.isNotEmpty(value) && !"sign".equals(key) && !"key".equals(key)  
&& !"packageNm".equals(key)) {  
            toSign.append(key);  
            toSign.append(value);  
        }  
        if ("packageNm".equals(key)) {  
            toSign.append("package="+ value + "&");  
        }  
    }  
    toSign.append(signKey);
```

```
logger.info("createSign sign:[{}]", toSign);  
return DigestUtils.md5Hex(toSign.toString()).toUpperCase();  
}  
  
}
```