用 Kotlin 提升你的开发效率

1、data class

```
data class User(
   val name: String,
  val age: Int
)

public User(String name, int age) {
   this.name = name;
  }

public String getName() {
   return name = name;
  }

public int getAge() {
   return age;
  }

public void setName(String name) {
   this.name = name;
  }

public int getAge() {
   return age;
  }

public void setAge(int age) {
   this.age = age;
  }

public void setAge(int age) {
   if (ob) instanced lace) {
    User eduser = (User) ob);
    return this.name.equals(eqUser.name) 65 this.age = eqUser.age;
   }
  }
}
```

2、中缀表达式

```
| fun test1() {
    val jack = User( name: "Jack", age: 20)
    val tom = User( name: "Tom", age: 20)
    val sameAge = jack sameAge tom
    println(sameAge)

| /** data class ...*/
| data class User(
    val name: String,
    val age: Int)

| /** 中缀表达式 ...*/
| infix fun User. sameAge(user: User): Boolean {
    return this. age == user. age
```

3、标准函数

```
fun test2() {
      val json = """{ ...""". trimIndent()
      val json0bject = try {
          JS0N0bject(json)
      } catch (e: JSONException) {
          println("---> error: ${e. message}")
          nu11
      dealCityInfo(jsonObject) {
          println("---> failed.")
      }
<u></u>
⊞/** 标准函数 ...*/
fun dealCityInfo(data: JSONObject?, fail: () -> Unit) {
      data?. takeIf { it. has( name: "city_info") }
              ?. takeIf { it: JSONObject
                  with(it.getJS0N0bject( name: "city_info")) { this: JSONObject!
                      return@takeIf has( name: "title") && has( name: "data")
                  }
              ?. let { it.getJS0N0bject( name: "city_info") }
              ?. apply { this: JSONObject
                  // do something
                  println("---> do something.")
              } ?: fail()
```

4、扩展方法

```
* 扩展POST
  fun test4(activity: Activity) {
      activity. apply { this: Activity
          main {
             // main thread.
              println("---> main: ${Thread.currentThread().name}")
              worker {
                  // worker thread.
                  println("---> worker: ${Thread.currentThread().name}")
             }
             println("---> main2: ${Thread.currentThread().name}")
     }
fun Activity.main(todo: () -> Unit) {
     Handler().post {
         todo()
     }
fun Activity.worker(todo: () -> Unit) {
     Executors. newSingleThreadExecutor()
              .execute {
                  todo()
              }
```

5, 10

```
fun javaIO() {
      var br: BufferedReader? = null
      try {
          br = BufferedReader(File( pathname: "readme.md")))
          var <u>line</u>: String
          while (true) {
              <u>line</u> = <u>br</u>.readLine() ?: break
              println("---> $\frac{1}{\text{line}}")
     } catch (ignore: Exception) {
     } finally {
          try {
             <u>br</u>?.close()
         } catch (ignore: IOException) {
         }
 // 快乐的 IO
🖯 fun luckyIO() - {
     BufferedReader(FileReader(File( pathname: "readme.md"))).use { it: BufferedReader
          var <u>line</u>: String
          while (true) {
              <u>line</u> = it.readLine() ?: break
              println("---> $1ine")
     }
     // 更加精简
      File( pathname: "readme. md"). readLines(). forEach(::println)
```

6、集合类操作

```
*集合类操作
**
*集合类操作
*/
fun test6() {
    val numList = intArrayOf(1, 2, 3, 4, 5, 6, 7, 8, 9, 0)
    val numList2 = arrayOf(1, 2, 3)
    val numList3 = Array<Int>( size: 1) { it }
    // 只要有一个满足即成立
    val resultAny = numList. any { it > 5 }
    println("---> resultAny: $resultAny")

// 所有满足才成立
    val resultAll = numList. all { it > 5 }
    println("---> resultAll: $resultAll")
```

7. Sequence

```
* Sequence
* 1、当不需要中间操作时,使用List
 * 2、当仅仅只有map操作时,使用sequence
 * 3、当仅仅只有filter操作时,使用List
 * 4、如果末端操作是first时,使用sequence
 * 5、对于没有提及的其他操作符或者其他操作符的组合,请尝试使用例子去验证一下
*/
fun testSequence() {
   var time = System.currentTimeMillis()
   val list = (1..65535)
          . toList()
          .map { it * 2 }
          .filter { it % 3 == 0 }
   list. first()
   // 76ms
   println("---> list: ${System.currentTimeMillis() - time}")
   time = System.currentTimeMillis()
   val sequence = (1..65535)
          . asSequence()
          .map { it * 2 }
          .filter { it % 3 == 0 }
   sequence. first()
   // 5ms
   println("---> sequence: ${System.currentTimeMillis() - time}")
```