

















































































































```
for ((language, designer) in designers) {  
    println("$language is designed by $designer")  
}
```































































































































































































Loops

for over maps

Scala is designed by Martin Odersky

Java is designed by James Gosling

Kotlin is designed by JetBrains

Groovy is designed by James Strachan

Closure is designed by Rich Hickey

```
val designers = mapOf(  
    "Scala" to "Martin Odersky",  
    "Java" to "James Gosling",  
    "Kotlin" to "JetBrains",  
    "Groovy" to "James Strachan",  
    "Closure" to "Rich Hickey")
```

```
for ((key, value) in designers) {  
    println("$key is designed by $value")  
}
```

Loops

for over maps

```
val designers = mapOf(  
    "Scala" to "Martin Odersky",  
    "Java" to "James Gosling",  
    "Kotlin" to "JetBrains",  
    "Groovy" to "James Strachan",  
    "Closure" to "Rich Hickey")
```

```
for ((language, designer) in designers) {  
    println("$language is designed by $designer")  
}
```

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Classes

declaration and default constructor