



100 LAMBDA CODE SNIPPETS

Java 8

1. Simple Runnable Example

```
Runnable r = () -> System.out.println("Hello, Lambda!");  
new Thread(r).start();
```

2. Iterating List using Lambda

```
List<String> list = Arrays.asList("Java", "Spring", "Lambda");  
list.forEach(item -> System.out.println(item));
```

3. Filtering a List with Lambda

```
List<String> list = Arrays.asList("Java", "JavaScript", "Python")  
List<String> filteredList = list.stream()  
                                .filter(s -> s.startsWith("J"))  
                                .collect(Collectors.toList());  
filteredList.forEach(System.out::println);
```

4. Sorting a List using Lambda

```
List<String> list = Arrays.asList("Java", "Lambda", "Kafka");  
list.sort((s1, s2) -> s1.compareTo(s2));  
list.forEach(System.out::println);
```

5. Using a Custom Functional Interface

```
@FunctionalInterface
interface Calculator {
    int calculate(int a, int b);
}

public static void main(String[] args) {
    Calculator add = (a, b) -> a + b;
    Calculator multiply = (a, b) -> a * b;
    println("Addition: " + add.calculate(5, 3));
    println("Multiplication: " + multiply.calculate(5, 3))
}
```

6. Lambda with Map Iteration

```
Map<String, Integer> map = new HashMap<>();
map.put("Java", 8);
map.put("Spring", 5);
map.put("Lambda", 1);
map.forEach((key, value) -> println(key + ": " + value));
```