

Lambda Expression

→ Lambda Expressions are Anonymous Functions. These functions do not need a name or a class to be used. Lambda Expressions are added in Java 8. Lambda Expression Express instances of functional interfaces.

Syntax →

() → Expression;
Params Arrow function body
token

Calculator c1 = (a, b) → {
 return a + b;
};
 1 2
 ↗ ↘
 2 Para 0 Para

↗ use parenthesis for multi-statements.

Shape s1 = () → System.out.println("I am Square");
 ↗ ↘
 0 Parameter only one statement so run without parenthesis.

Number n1 = n → {
 if (n % 2 == 0) {
 cout << "Even" << endl;
 } else {
 cout << "ODD" << endl;
 }
};

↗ Can remove Brackets() for one Parameter

Collections

↗ Can sort In Increase

Tree <Integer, Integer> map = new TreeMap <>();
Comparator <Integer> Comp1 = (a, b) → b - a;
// incr 1P - 2 Parameter ↗ reverse sort.
// 2P - 1 Parameter

Pass Comp1 for reverse & then run

map.put(7, 1);
map.put(77, 1);
map.put(177, 1);
map.put(17, 1);

① Sort(map); → Increasing

Tree <Integer, Integer> map = new TreeMap <>(
 (a, b) → b - a);

* ↗ we can direct Pass this for sort in reverse order

Do It
* Comparable? find functional interface?
of yes Implement it

→ Priority Queue + custom class → sort using lambda

* why this work because Comparator is a functional interface.

ArrayList <Integer> list = new ArrayList <>();
list.forEach();

↗ use Consumer Interface is also a functional interface

read all this

* Serialize / threading

* Consumer