**Lambda expressions scopes**

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| **package** com.company;  **import** java.util.ArrayList; **import** java.util.Collections; **import** java.util.Comparator;  **public class** Main {   **public static void** main(String[] args) {   *//WITH LAMBDA EXPRESSION - more about collection class* Employee snow = **new** Employee(**"Jon snow"**, 10);  Employee tygerrian = **new** Employee(**"Tygerrian"**, 5);  Employee ned = **new** Employee(**"Ned Stark"**, 25);  Employee lenisters = **new** Employee(**"Kingslayer"**, 35);   ArrayList<Employee> employees = **new** ArrayList<>();  employees.add(snow);  employees.add(tygerrian);  employees.add(ned);  employees.add(lenisters);   *//actually it creates a local variable with final at background* **for** (Employee emps : employees){  System.***out***.println(emps.getName());  **new** Thread(() -> System.***out***.println(emps.getExperience())).start();  }  System.***out***.println(**"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"**);  *//simplified for* **for** (**int** i = 0; i < employees.size(); i++){  System.***out***.println(**"i = "** + i);  Employee emps = employees.get(i);  System.***out***.println(emps.getName());  **new** Thread(() -> System.***out***.println(emps.getExperience())).start();  }  } } **class** Employee{  String **name**;  **int experience**;   *//constructor* **public** Employee(String name, **int** experience) {  **this**.**name** = name;  **this**.**experience** = experience;  }  *//getter and setter* **public** String getName() {  **return name**;  }  **public void** setName(String name) {  **this**.**name** = name;  }  **public int** getExperience() {  **return experience**;  }  **public void** setExperience(**int** experience) {  **this**.**experience** = experience;  } } | **Jon snow**  **Tygerrian**  **Ned Stark**  **Kingslayer**  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **10**  **5**  **25**  **35**  **i = 0**  **Jon snow**  **i = 1**  **Tygerrian**  **10**  **i = 2**  **Ned Stark**  **i = 3**  **Kingslayer**  **5**  **25**  **35** |

**Another try when we put predefined decleration :**that is counted as final; so no local variable gets created, so we get an error:

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Doing the all stuffs using LAMBDA EXPRESSIONS

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| **package** com.company;  **import** java.util.ArrayList; **import** java.util.Collections; **import** java.util.Comparator;  **public class** Main {   **public static void** main(String[] args) {   *//WITH LAMBDA EXPRESSION - more about collection class* Employee snow = **new** Employee(**"Jon snow"**, 10);  Employee tygerrian = **new** Employee(**"Tygerrian"**, 5);  Employee ned = **new** Employee(**"Ned Stark"**, 25);  Employee lenisters = **new** Employee(**"Kingslayer"**, 35);   ArrayList<Employee> employees = **new** ArrayList<>();  employees.add(snow);  employees.add(tygerrian);  employees.add(ned);  employees.add(lenisters);   employees.forEach(emp -> {  System.***out***.println(emp.getName());  System.***out***.println(emp.getExperience());  });  } } **class** Employee{  String **name**;  **int experience**;   *//constructor* **public** Employee(String name, **int** experience) {  **this**.**name** = name;  **this**.**experience** = experience;  }  *//getter and setter* **public** String getName() {  **return name**;  }  **public void** setName(String name) {  **this**.**name** = name;  }  **public int** getExperience() {  **return experience**;  }  **public void** setExperience(**int** experience) {  **this**.**experience** = experience;  } } | Jon snow  10  Tygerrian  5  Ned Stark  25  Kingslayer  35 |