A lambda expression is a short block of code which takes in parameters and returns a value. Lambda expressions are similar to methods, but they do not need a name and they can be implemented right in the body of a method.

Example

Use a lambda expression in the ArrayList’s forEach() method to print every item in the list:

import java.util.ArrayList;

public class Main {

public static void main(String[] args) {

ArrayList<Integer> numbers = new ArrayList<Integer>();

numbers.add(5);

numbers.add(9);

numbers.add(8);

numbers.add(1);

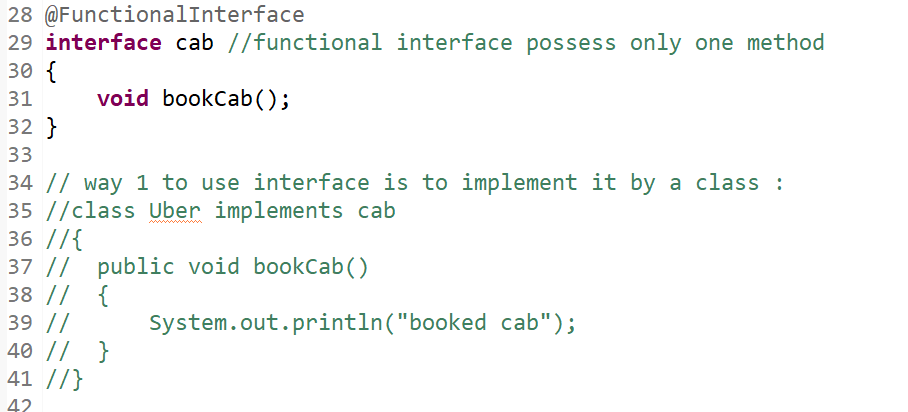
numbers.forEach( (n) -> { System.out.println(n); } );

}

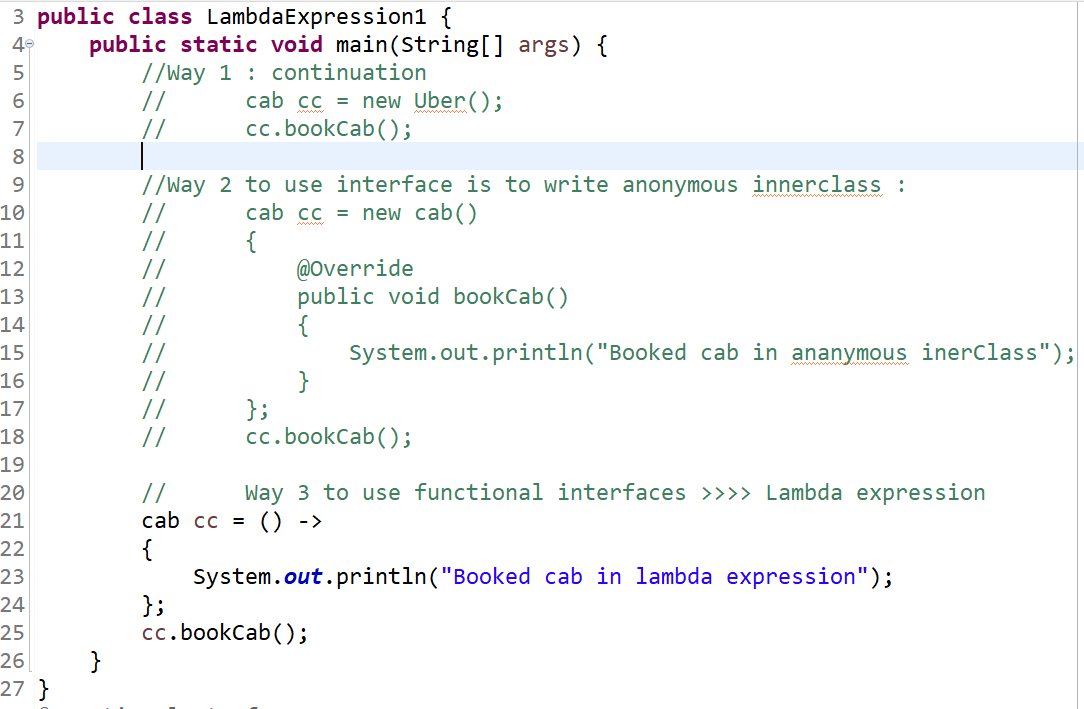
}

Functional interfaces : Interface that contains one single method. Lambda expression only works with functional interfaces. Lambda ex. Can have 0, 1, and multiple parameters.

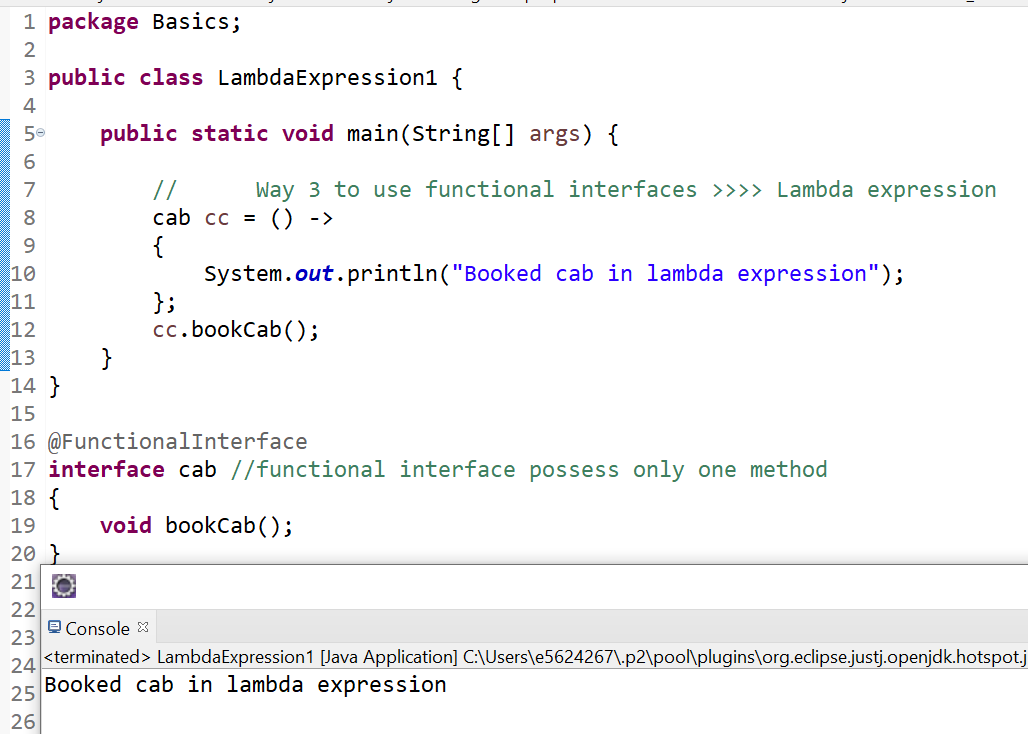
Ways 1 : Other than lambda expression below commented part shows other two ways to access functional interfaces :



Ways 2 : Other than lambda expression below commented part shows other two ways to access functional interfaces :



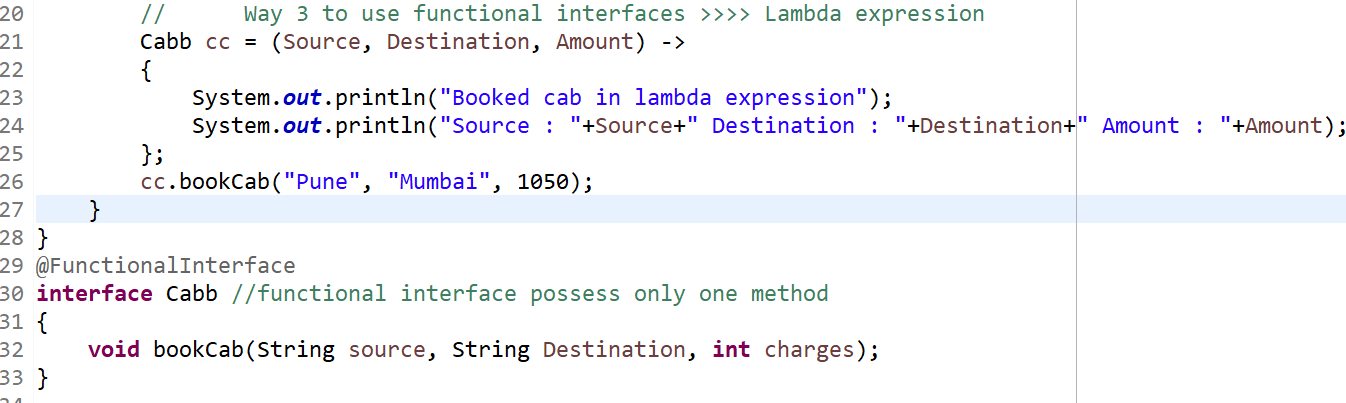
Way 3 : **Lambda expression** to access functional interfaces



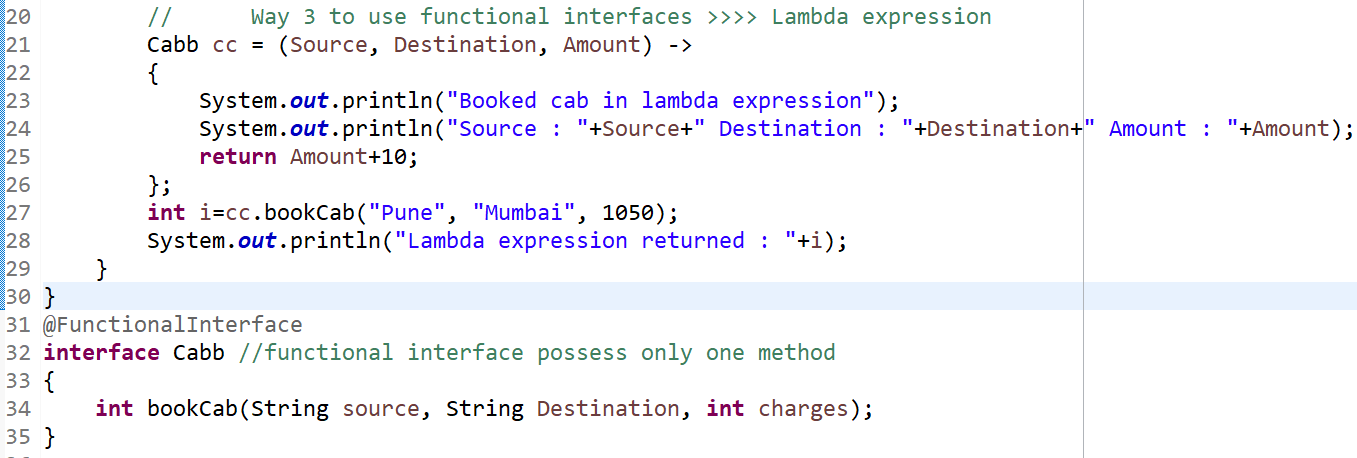
Lambda expression can have :

1. Zero parameter
2. 1 parameter
3. Multiple parameters
4. Can have return type

Example of lambda expression with Multiple parameters :



Example of lambda expression with return type :



Lambda expressions can :

1. Use local variables
2. Static variables
3. Instance variables