Lab 8

Group 2

Question 1

|  |  |  |
| --- | --- | --- |
| Lambda expression | Free variable | Parameter |
|  | None | None |
|  | s,t | ignoreCase |

Question 6

**A. (Employee e) -> e.getName()**

Function<Employee, String> toUpper1 = (e) -> e.getName();

Function<Employee, String> getName1 = Employee::getName;

Method reference type: Class::instanceMethod

**B. (Employee e,String s) -> e.setName(s)**

BiFunction<Employee, String, void> toUpper1 = (e, x) -> e.setName(x);

BiFunction<Employee, String, void> toUpper2 = e :: setName;

Method reference type: Object::instanceMethod

**C. (String s1,String s2) -> s1.compareTo(s2)**

BiFunction<String, String, Integer> compa = (s1, s2) -> s1.compareTo(s2);

BiFunction<String, String, Integer> compa1 = String::compareTo;

Method reference type: Class ::instanceMethod

**D. (Integer x,Integer y) -> Math.pow(x,y)**

BiFunction<Integer, Integer, Double> pow = (x, y) -> Math.*pow*(x.doubleValue(), y.doubleValue());

BiFunction<Integer, Integer, Double> pow1 = Math::*pow*;

Method reference type: *Class::staticMethod*

**E. (Apple a) -> a.getWeight()**

Function<Apple, Double> getapple = a -> a.getWeight();

Function<Apple, Double> getapple1 = Apple::getWeight;

Method reference type: Class ::instanceMethod

**F. (String x) -> Integer.parseInt(x);**

Function<String, Integer> parse = x -> Integer.*parseInt*(x);

Function<String, Integer> parse1 = Integer::*parseInt*;

Method reference type: Class ::instanceMethod

**G. EmployeeNameComparator comp = new EmployeeNameComparator();**

**(Employee e1, Employee e2) -> comp.compare(e1,e2)**

BiFunction<Employee, Employee, Integer> comparator = (e1, e2) -> comp.compare(e1,e2);

BiFunction<Employee, Employee, Integer> comparator1 = comp::compare;

Method reference type: Object::instanceMethod