|  |
| --- |
| import java.util.function.\*; |
|  |  |
|  | public class Assignment4Q3 { |
|  |  |
|  | static int modifyValue(int value, Function<Integer, Integer> function) { |
|  | int output = function.apply(value); |
|  | System.out.println(output); |
|  | return output; |
|  | } |
|  |  |
|  | static class Product { |
|  |  |
|  | private double price = 0.0; |
|  |  |
|  | public void setPrice(double price) { |
|  | this.price = price; |
|  | } |
|  |  |
|  | public void printPrice() { |
|  | System.out.println(price); |
|  | } |
|  | } |
|  |  |
|  | static void display() { |
|  | // Consumer |
|  | Consumer<Integer> display = a -> System.out.println(a); |
|  | display.accept(1000); |
|  |  |
|  | // Functional |
|  | Function<Integer, Double> half = a -> a / 10.0; |
|  | System.out.println(half.apply(100)); |
|  |  |
|  | // Predicate |
|  | Predicate<Integer> pr = a -> (a > 10); |
|  | System.out.println(pr.test(100)); |
|  |  |
|  | //Supplier |
|  | Supplier<Integer> arg = ()-> 10; |
|  | System.out.println(arg.get()); |
|  | } |
|  |  |
|  | public static void main(String[] args) { |
|  | // All |
|  | display(); |
|  |  |
|  | // Functional Interface |
|  | modifyValue(5, v -> v + 10); |
|  |  |
|  | // Consumer Interface |
|  | Consumer<Product> getPrice = p -> p.setPrice(92.1); |
|  | Product p = new Product(); |
|  | getPrice.accept(p); |
|  | p.printPrice(); |
|  |  |
|  | } |
|  |  |
|  | } |

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