## **Function (Greet Test)**

```
    Mello.java 

    X

             package func;
 1
 2
 3
      public class Hello implements Greeting{
 5
 6
          @Override
 ➂
          public void greet() {
 8
              System.out.println("Hello");
 9
10
11
```

# greetTest();

```
private static void greetTest() {
    Greeting g1 = new Hello();
    gl.greet();

    Greeting g2 = new Greeting() {
        public void greet() {
            System.out.println("Hello Anonymous");
        }
        public void x() {}
    };
    g2.greet();

    Greeting g3 = () -> System.out.println("Hello Lambda");
    g3.greet();

    Runnable r = () -> System.out.println("Hello Runnable");
    r.run();
}
```

```
Output - INT103_Functional_v3 (run) ×

run:
Hello
Hello Anonymous
Hello Lambda
Hello Runnable
BUILD SUCCESSFUL (total time: 0 seconds)
```

## welcomeTest(); + Supplier

```
private static void welcomeTest() {

//Welcome wl<String> = () -> "Hello wel";

Welcome wl = () -> { return "Good Evening"; };

Welcome w2 = () -> {

String x = "Functional";

return "Good Evening";

};

System.out.println(wl.hi() + '\n' + w2.hi());

Supplier<String> s = () -> "Hello Supplier"; //เป็น Supplier<T> เพราะใม่รับ

Supplier<Integer> i = () -> 15; //input(paramiter) แต่ return result ใต้

System.out.println(s.get()); //excuteตัวย get()

System.out.println(i.get());

}
```

```
Output - INT103_Functional_v3 (run) X

run:
Hello wel
Good Evening
Hello Supplier
15
BUILD SUCCESSFUL (total time: 0 seconds)
```

## goodByeTest(); + Consumer

```
private static void goodByeTest() {
    Goodbye gl = x -> System.out.println("Good bye " + x);
    gl.bye("Students");
    Goodbye g2 = x -> System.out.println("Good bye " + x);
    g2.bye("Teacher");

Consumer<String> c = x -> System.out.println("Good bye " + x); //Consumer รับค่า input แต่ไม่ return c.accept("Cosumer"); //excuteค้าย accept()
}
```

```
Output - INT103_Functional_v3 (run) ×

run:
Good bye Students
Good bye Teacher
Good bye Cosumer
BUILD SUCCESSFUL (total time: 0 seconds)
```

## shakeHandTest(); + BinaryOperator

```
private static void shakeHandTest() {
    ShakeHand s = (f ,1) -> f + ' ' + 1;
    System.out.println("Shake hand " + s.shake("Tae" ,"Bruh"));
    BinaryOperator<String> b = (f,1) -> f + ' ' + 1;
    System.out.println("Shake hand with " + b.apply("BO", "Porkaew"));
}
```

```
Output - INT103_Functional_v3 (run) ×

run:
Shake hand Tae Bruh
Shake hand with BO Porkaew
BUILD SUCCESSFUL (total time: 0 seconds)
```

### streamTest(); + Stream

Three

Four

14

```
private static void streamTest() {
        String[] s = {"One", "Two", "Three", "Four", "Five"};
                                                                      เขียนแบบเดิม
//
          Stream < String > x = Stream.of(s);
                   .filter(a->a.contains("r"))
                   .forEach(System.out::println);
                                                                      //เขียนแบบย่อ
        Stream.of(s)
                 .filter(a->a.contains("r"))
                 .forEach(System.out::println);
                   .forEach(x -> System.out.println(x));
        int out = Stream.of(s)
                 .map(String::length)
                 .filter(a->a<5)
                 .reduce(0, (q, e) -> q + e);
        System.out.println(out);
            Soutput - INT 103_Functional_v3 (run)
                   run:
```

BUILD SUCCESSFUL (total time: 0 seconds)