Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1. Which of these are correct ways to instantiate a function type. Select all that apply. **1 / 1 point**

- [x] Using a lambda expression.

  Correct
  Correct! You can use a lambda expression to instantiate a function type.

- [ ] Using the function name.
- [x] Using a callable reference to existing declaration using the '::' operator

  Correct
  Correct! You can use a callable reference such as '::functionName'.

- [x] Using instance of a user defined class that implements a function type as an interface.

  Correct
  Correct! You can instantiate a function using a defined class that implements a function type as an interface.

2. Which of these is a syntactically valid function type? **1 / 1 point**

- ( ) `Int, Int -> (String)`
- ( ) `(Int) -> Int, String`
- (•) `(Int, Int) -> String`

Correct
Correct! You define the list of parameters enclosed in a parenthesis, followed by arrow notation and the return type.

3. Which of these is a correct lambda expression syntax? **1 / 1 point**

- ( ) `x: Int, y: Int -> { x * y }`
- (•) `{ x: Int, y: Int -> x * y }`
- ( ) `x: Int, y: Int -> x * y`

Correct
Correct! This is the correct syntax.

4. Which of these would output 'hello world' when the function defined below is called? **1 / 1 point**

```
1  fun execute(string: String, function: (String) -> String) {
2   println(function(string))
3  }
```

- ( ) `execute { "hello world" }`
- (•) `execute("hello") { "$it world" }`
- ( ) `execute("hello") { "world" }`

Correct
Correct! The implicit argument 'it' will contain the value 'hello' and hence concatenated string, 'hello world' will be printed.

5. Which listener interface provided by the Android framework is used to listen for button press events? **1 / 1 point**

- (•) View.OnClickListener
- ( ) View.OnTapListener
- ( ) View.OnPressListener

Correct

Correct! The ‘View’ class contains an interface ‘OnClickListener’ that has a method ‘onClick’ which gets called on events such as a button press.