Coroutines 🔖

Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

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1. Fill-in-the-blanks

Enter one or more words to complete the sentence.

The `main` thread, sometimes called the UI thread, is responsible for updating the screen in an Android app.

⊘ Correct!

2. Which of the following are some of the pitfalls of directly using threads in your code?

Choose as many answers as you see fit.

☑ Race conditions   ⊘ Correct!

☑ Inconsistent output   ⊘ Correct!

☑ Unresponsive UI   ⊘ Correct!

☐ `Thread` is deprecated

3. Which of the following is true about coroutines?

○ Once started, a coroutine cannot be canceled.

○ A coroutine always runs on the main thread.

◉ A coroutine may or may not execute.   ⊘ Correct!

○ Coroutines avoid the need to create new threads, by running every task on the same thread.

4. True or False: If a function already calls a `suspend` function, then it does not need to be marked as a suspend function itself.

○ True

◉ False   ⊘ Correct!

5. Which of the following are `suspend` functions?.

Choose as many answers as you see fit.

☐ `async()`

☑ The lambda passed into `async()`   ⊘ Correct!

☐ `runBlocking()`

☑ The lambda passed into `runBlocking()`   ⊘ Correct!

6. Which of the following are false about `async()` and `runBlocking()` ?

○ Both functions take a CoroutineScope (a `suspend` function) as a parameter.

◉ Both functions return a Deferred   ⊘ Correct!

○ You'll typically not use runBlocking in Android app code.

○ When using async, you need to use await() to access the returned value.

7. True or False: In most apps, you would create coroutines using the global scope.

○ True

◉ False   ⊘ Correct!

8. What is responsible for determining which thread is used behind the scenes by a

coroutine?

- ○ `CoroutineScope`
- ● `Dispatcher` ✓ Correct!
- ○ `Job`
- ○ `GlobalScope`

9. Fill-in-the-blanks
Enter one or more words to complete the sentence.

A `deferred` is similar to a promise or future in other languages and serves as a placeholder for a return value.

✓ Correct!

10. True or False: A `Job` is a cancelable unit of work performed by a coroutine.

- ● True ✓ Correct!
- ○ False

Results

You scored 10 out of 10. Congratulations! You have passed this quiz.

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