

AutoGraph

LATEST SUBMISSION GRADE

100%

1.

Question 1

Which of the following statements is *false* about Graph approach?

1 / 1 point



Parallelism



Faster compilation



Portability



Easier debugging

Correct

Correct! This statement is false. Since operations don't execute until the Graph is fully designed, it can be tricky to debug.

2.

Question 2

Which of the following statements is *true* for *tf.cond*?

1 / 1 point



tf.cond is an alternative to using *if/else* statements in Graphs, as its execution is much faster than *if/else* statements.



Graph execution does not support *if/else* statements. To replicate that effect you use *tf.cond*

Correct

Correct!

3.

Question 3

Consider the following code:

```
def increment_by_two(x):  
    return x + 2  
  
def multiple_increment(x, i):  
  
    k = x  
    for j in range(i):  
        k = increment_by_two(k)  
  
    return k
```

How do you convert *both* of these functions to execute in *Graph* mode? Check all that are true.

1 / 1 point

☐

By adding the decorator, `@tf.function`, only above the function definition of *multiple_increment*

Correct

Correct! If a function is decorated with '`@tf.function`', then the functions that it calls will also be included in graph mode.

☐

By adding the decorator, `@tf.autograph`, above the definitions of both of the functions.

☐

By adding the decorator, `@tf.function`, above the definitions of both of the functions.

Correct

Correct!

☐

By adding the decorator, `@tf.function`, only above the function definition of *increment_by_two*

4.

Question 4

Function written in Eager mode when converted to Graph accommodates different data types all in one, so you don't have to define similar functions for different data types.

1 / 1 point



False



True

Correct

Correct!

5.

Question 5

Which of the following is the correct syntax to display the auto-generated AutoGraph code if your function name is *my_function*?

1 / 1 point



`tf.autograph.to_code(my_function)`



`tf.autograph.code(my_function)`



`tf.autograph.code(my_function.python_function)`



`tf.autograph.to_code(my_function.python_function)`

Correct

Correct!

6.

Question 6

Consider the following code, what will be the output?

```
def func(str):  
    print(str)  
    tf.print(str)  
  
for i in range(3):  
    func("Hello World!")
```

1 / 1 point



Hello World!

Hello World!

Hello World!

Hello World!



Hello World!

Hello World!

Hello World!



Hello World!

Hello World!

Hello World!

Hello World!

Hello World!

Hello World!

Correct

Correct! Even though `tf.print` is used, we still get 6 print statements because the function is not decorated to run as a Graph.

