



## Questions for Django Trainee at Accuknox

### Topic: Django Signals

**Question 1:** By default are django signals executed synchronously or asynchronously? Please support your answer with a code snippet that conclusively proves your stance. The code does not need to be elegant and production ready, we just need to understand your logic.

**Question 2:** Do django signals run in the same thread as the caller? Please support your answer with a code snippet that conclusively proves your stance. The code does not need to be elegant and production ready, we just need to understand your logic.

**Question 3:** By default do django signals run in the same database transaction as the caller? Please support your answer with a code snippet that conclusively proves your stance. The code does not need to be elegant and production ready, we just need to understand your logic.

### Topic: Custom Classes in Python

**Description:** You are tasked with creating a Rectangle class with the following requirements:

1. An instance of the `Rectangle` class requires `length:int` and `width:int` to be initialized.
2. We can iterate over an instance of the `Rectangle` class
3. When an instance of the `Rectangle` class is iterated over, we first get its length in the format: `{'length': <VALUE_OF_LENGTH>}` followed by the width `{width: <VALUE_OF_WIDTH>}`