

**Questions for Django Trainee at Accuknox**

[Topic:  **HYPERLINK "https://docs.djangoproject.com/en/3.2/topics/signals/"Django Signals**](https://docs.djangoproject.com/en/3.2/topics/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.

**Answer**: Yes, Django signals are executed synchronously.

**Example**: synchronus\_example.py

**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.

**Answer**: Yes, Django signals run in the same thread as the caller.

**Example**: same-thread\_example.py

**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.

**Answer**: Yes, Django signals run in the same database transaction as the caller.

**Example**: same-database\_example.py

Topic: Custom Classes in Python

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

* An instance of the Rectangle class requires length:int and width:int to be initialized.
* We can iterate over an instance of the Rectangle class
* 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>}**

**Program**: rectangle\_class.py