

# **Questions for Django Trainee at Accuknox**

## [Topic: **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.

**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>}**