# Exceptions, error handling - Advanced

## Try - Except | Full control when having an error during execution

Once a .py file is executed, and somewhere along the way an error is thrown, the 'run' would immediately fail and stop.

What if we can have **full control** over our code, and **prevent it from failing**. Exactly for that we can use the 'try-except' statement.

### **Code flow & Implementation**

In this section we'll be discussing what happens when the code gets to a 'try-except' statement, and what are the logics behind it.

We'll also explain a code example, and break down the parts to mini-topics as always.

#### Code flow

Once we run a file that has 'try-except' statement -

- 1. Code execution will first run what's inside 'try'.
- 2. If no 'errors' are raised in the 'try' statement, the code will complete the execution within 'try', and will ignore the 'except' part completely. Whatever code appears after 'try', would also run.
- 3. But, if any error will be raised during the execution of the 'try' statement, the code will not fail or stop. The execution will instantly move to executing of what's inside 'except'.



## Implementation example

The following code (#1 in the list - from the previous lecture) is a perfect example of how try-except gets us full control over flow of code. This chunk of code will cause a **'SyntaxError'** once executed.

