Q1. What is the purpose of the try statement?

Answer:

In Python, the try statement is used for exception handling. The try statement allows us to define a block of code to be tested for errors while it is being executed.

Q2. What are the two most popular try statement variations?

Answer:

🡪 try …except

🡪 try …except …finally

Q3. What is the purpose of the raise statement?

Answer:

In Python, raise keyword is used to trigger an exception or error explicitly, if a certain condition is not as per the requirements of the outcome by programmer. It raises an error and stops the control flow of the program.

Q4. What does the assert statement do, and what other statement is it like?

Answer:

The assert statement is used to check types, values of argument and the output of the function. It is used to debug the program since it stop the program at the point where an error occurs.

It is like raise statement where we can create custom exceptions.

Q5. What is the purpose of the with/as argument, and what other statement is it like?

Answer:

The with/as statement is the shorter for of file handling in python. The with/as statement is helping programmer to explicitly take care of activities like resource de-allocation and file closing by using file.close() method. This statement itself ensures proper acquisition and release of resources. This helps in avoiding file closing exception triggering. It is similar to try ...finally block of codes.

Example:

with open('test\_file.txt', 'w') as f: f.write('Hello, World')