Q1. What is the purpose of the try statement?

Ans. The try statement allows you 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?

Ans. The two popular try statement variations are try and except.

Q3. What is the purpose of the raise statement?

Ans. Raise keyword is used to raise exceptions or errors. The raise keyword raises an error and stops the control flow of the program. It is used to bring up the current exception in an exception handler so that it can be handled further up the call stack.

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

Ans. Assert statement takes an expression and optional message. Assert statement is used to check types, values of argument and the output of the function. Assert statement is used as debugging tool as it halts the program at the point where an error occurs.

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

Ans. With/as statement simplifies use of file handling in python. When we use a with statement for file reading, there is no need for programmer to explicitly takecare of activities like resource deallocation and file closing by using file.close() method. with statement itself ensures proper acquisition and release of resources. this avoids triggering of exceptions if file closing is unknowingly forgotten in the code execution.