Q1. What is the purpose of the try statement?

Ans: The try statement contains the code that can raise an exception. If there is an error in the code then it will not execute the code written inside the try statement and it will re-direct the flow to exception statement where the raised exception can be handled.

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

Ans: Two most popular try statement variations are Else and Finally statements.

Q3. What is the purpose of the raise statement?

Ans: If a condition does not meet our criteria but is correct according to the Python interpreter, we can intentionally raise an exception using the raise keyword. We can use a customized exception in conjunction with the statement.

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

Ans: An exception is thrown if the outcome is false when an expression is evaluated. Assertions are commonly used at the beginning of a function to inspect for valid input and at the end of calling the function to inspect for valid output. Assert statement can be compared with if-then condition.

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

Ans: In Python, with statement is used in exception handling to make the code cleaner and much more readable. It simplifies the management of common resources like file streams. With statement helps avoiding bugs and leaks by ensuring that a resource is properly released when the code using the resource is completely executed.