**Q1. What is the purpose of the try statement?**

**Answer:** The try statement is used for exception handling in Python. It allows you to execute a block of code and catch exceptions if they occur, preventing the program from crashing.

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

**Answer:**

1. try-except – Handles exceptions by catching errors and providing an alternative execution path.
2. try-finally – Ensures that certain code (usually cleanup actions) runs regardless of whether an exception occurs.

**Q3. What is the purpose of the raise statement?**

**Answer:** The raise statement is used to manually trigger an exception. It is useful for defining custom error-handling logic or propagating an exception up the call stack.

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

**Answer:** The assert statement is used for debugging by checking conditions that should always be true. If the condition is false, an AssertionError is raised. It is similar to an if statement combined with raise.

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

**Answer:** The with/as statement is used for resource management, such as opening files or handling network connections. It ensures that resources are properly acquired and released. It is similar to try-finally, as it guarantees cleanup actions.