ADVANCE ASSIGNMENT-7

Q1. What is the purpose of the try statement?

Ans1- The purpose of the try statement is to enclose a block of code where exceptions might occur, allowing you to catch and handle those exceptions gracefully.

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

Ans2- The two most popular try statement variations are:

try...except: Used to catch and handle exceptions.

try...finally: Used to ensure that a specific block of code (the "finally" block) is executed, whether an exception occurs or not.

Q3. What is the purpose of the raise statement?

Ans3- The purpose of the raise statement is to manually raise an exception in Python. It allows you to create and raise custom exceptions with specific messages and attributes.

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

Ans4- The assert statement is used for debugging purposes. It checks whether a given condition is true and raises an AssertionError if the condition is false. It is similar to an if statement but is typically used for debugging and testing.

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

Ans5- The with/as argument is used in a with statement to manage resources (like file handling or database connections) and ensure they are properly acquired and released. It is similar to a try...finally block but provides a more concise and Pythonic way to manage resources with context managers.