Q1. What is the purpose of the try statement?

Ans: try statement in python is used for exception handling. It allows you to write code that can handle errors or exceptions that may occur while running the program.

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

Ans: 1. ‘try-except’ block: this is the most common variation of the “try” statement. It is used to catch and handle exceptions that may be raised during the execution of the ‘try’ block.

2.’try-finally’ block: this variation is used to ensure that a certain block of code is executed regardless of whether an exception is raised or not.

Q3. What is the purpose of the raise statement?

Ans: the ‘raise’ statement in python is used to manually raise an exception. It allows you to trigger an exception and provide a custom error message or other details.

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

Ans: the ‘assert’ statement in python is used to check whether a condition is true or not. It is used as a debugging aid and is typically used to catch programming errors or logic mistakes.

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

Ans: the ‘with/as’ statement in python is used to manage resources such as files, network connections, and locks. It provides a convenient way to ensure that resources are properly acquired and released, even in the case of exceptions or errors.