**What is white box testing and list the types of white box testing?**

White box testing involves selection of test cases based on an analysis of the internal structure (Code coverage, branches coverage, paths coverage, condition coverage etc.) of a component or system.

It is also known as Code Based testing or Structural testing. Different types of white box testing are. - Statement Coverage - Decision Coverage

**In white box testing what do you verify?**

Verify the security holes in the code Verify the incomplete or broken paths in the code Verify the flow of structure according to the document specification Verify the expected outputs Verify all conditional loops in the code to check the complete functionality of the application Verify the line by line coding and cover 100% testing

**What is Gray Box Testing?**

Grey box testing is the hybrid of black box and white box testing. In this, tester has knowledge of code, but this is less than the knowledge of white box testing. Based on this knowledge the test cases are designed and the software application is under test treats as a black box & tester test the application from outside.

**What is the difference between static and dynamic testing?** Static testing: During Static testing, the code is not executed, and this is about the software documentation. Dynamic testing: To perform this testing, the code must be in an executable form.

**What is Integration Testing?** Integration testing is part of black box testing. İn integration testing we understand that units work together to complete a specific task. İn this test We understand that all functions work when we integrate them.  Integration testing is done after unit testing. There are mainly three approaches to do integration testing: Top-down Approach 🡪 tests the components by integrating from top to bottom. Bottom-up approach 🡪 It start from the bottom of the control flow to the higher-level components Big bang approach 🡪 In this, different module come together to form a complete system and then testing is started.

**What is Scalability Testing?**

Scalability testing is testing for enhance and improve the functional and performance capabilities of the application.

The scalability measurements is done by evaluating the application performance in load and stress conditions. And based on this evaluation, we improve and enhanced the capabilities of the application.