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

* White box testing is a software testing technique that analyzes a program’s internal structure, code, and logic.
* Specification-based testing technique is also known as ‘black-box’ or input/output driven testing techniques because the view the software as a black-box with inputs and outputs.
* The testers have no knowledge of how the system or component is structured inside the box.
* In black-box testing the tester is concentrating on what the software does, not how it does it.
* Specification-based techniques are appropriate at all levels of testing component testing through to acceptance testing where a specification exits.
* For example, when performing system or acceptance testing, the requirements specification or functional specification many from the basis of the tests.
* The technique of testing without having any knowledge of the interior workings of the application is black box testing.
* Typically used at System Test phase, although can be useful throughout the test lifecycle.
* The tester is oblivious to the system architecture and dose not have access to the source code.

**Types of white box testing**

Hybrid Approach

Bottom up approach

Top Down testing

Mutation testing

Operations testing

Execution testing

Unit testing

Integration testing

White Box testing