NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

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1. What are the differences between

- a. White box testing and Black box testing.
- b. Alpha testing and Beta testing.

→ a. White box testing vs. Black box testing:

- White box testing is the detailed investigation of internal logic and structure of the code whereas, black box is the technique of testing without having any knowledge of the interior workings of the application.
- In order to perform white box testing on an application, a tester has to know the internal workings of the code whereas, in case of black box testing, the tester is oblivious to the system architecture and does not have access to the source code.
- O In white box testing, the tester needs to have a look inside the source code to find out which chunk of the code is behaving inappropriately whereas, in black box testing, the tester will interact with the system's user interface by providing inputs and examining outputs without knowing how and where the inputs are worked upon.

b. Alpha testing vs. Bets testing:

- Alpha testing is conducted at the developer's site by end-users whereas, beta testing is conducted at the end-users site.
- In alpha testing, the developer oversees the test and records errors and usage problems whereas, in beta testing, the developer is generally not present. This means that alpha testing takes place in natural setting controlled by the developer whereas, the beta testing takes place in a live user-end environment settings which cannot be controlled by the developer.