8. What types of manual testing are there? Break them down.

Manual testing is broken down into:

* Black Box
* White Box
* Integration
* Unit
* System
* Acceptance

### What is black box testing, and what are the various techniques?

Software testers employ black-box testing when they do not know the internal architecture or code structure. The techniques are:

* Equivalence Partitioning
* Boundary value analysis
* Cause-effect graphing

### 10. What is white box testing and its various techniques?

Unlike [black-box testing, white box](https://www.simplilearn.com/white-box-vs-black-box-testing-rar397-article) involves analyzing the system’s internal architecture and/or its implementation, in addition to its source code quality. It’s techniques are:

* Statement Coverage
* Decision Coverage

### 11. Explain the difference between alpha testing and beta testing.

Alpha testing is at the developer’s site before release. Potential clients conduct beta testing at their websites

### 12. What’s the difference between verification and validation?

Verification evaluates the software at the development phase, ascertaining whether or not a product meets the expected requirements. On the other hand, validation evaluates the software after the development phase, making it sure it meets the requirements of the customer.

### 17. What’s the difference between a bug and a defect?

A bug is a fault in the software that’s detected during testing time, while a defect is a variance between expected results and actual results, detected by the developer after the product goes live

### 18. What about the difference between an error and a failure?

If a program can’t run or be compiled during development, it’s an error. If an end-user discovers an issue with the software, it’s a failure.

**#Q 2) What are the fields in a Bug Report?**

**Answer:**Following important fields should be included in a [good Bug Report](https://www.softwaretestinghelp.com/sample-bug-report/)**:**

1. A unique ID
2. Defect Description: a short describing what the bug is.
3. Steps to Reproduce: details about how to arrive at the error, exact test data, the time at which defect was found(if applicable) environment: any information that will help re-encounter the issue
4. Module/section of the application (if applicable)
5. Severity
6. Screenshot
7. Responsible QA: in case of any follow-up questions regarding this issue