S.no.	On the basis of	Black Box testing	White Box testing
1.	Basic	It is a software testing technique that examines the functionality of software without knowing its internal structure or coding.	In white-box testing, the internal structure of the software is known to the tester.
2.	Also known as	Black Box Testing is also known as functional testing, data-driven testing, and closed-box testing.	It is also known as structural testing, clear box testing, code-based testing, and transparent testing.
3.	Programming knowledge	In black-box testing, there is less programming knowledge is required.	In white-box testing, there is a requirement of programming knowledge.
4.	Algorithm testing	It is not well suitable for algorithm testing.	It is well suitable and recommended for algorithm testing.
5.	Usage	It is done at higher levels of testing that are system testing and acceptance testing.	It is done at lower levels of testing that are unit testing and integration testing.
6.	Automation	It is hard to automate black-box testing due to the dependency of testers and programmers on each other.	-
7.	Tested by	It is mainly performed by the software testers.	It is mainly performed by developers.
8.	Time-consuming	It is less time-consuming. In Black box testing, time consumption depends upon the availability of the functional specifications.	It is more time-consuming. It takes a long time to design test cases due to lengthy code.
9.	Base of testing	The base of this testing is external expectations.	The base of this testing is coding which is responsible for internal working.

10.	Exhaustive	It is less exhaustive than White Box testing.	It is more exhaustive than Black Box testing.
11.	Implementation knowledge	In black-box testing, there is no implementation knowledge is required.	In white-box testing, there is a requirement of implementation knowledge.
12.	Aim	The main objective of implementing black box testing is to specify the business needs or the customer's requirements.	Its main objective is to check the code quality.
13.	Defect detection	In black-box testing, defects are identified once the code is ready.	Whereas, in white box testing, there is a possibility of early detection of defects.
14.	Testing method	It can be performed by trial and error technique.	It can test data domain and data boundaries in a better way.
15.	Types	Mainly, there are three types of black-box testing: functional testing, Non-Functional testing, and Regression testing.	The types of white box testing are — Path testing, Loop testing, and Condition testing.
16.	Errors	It does not find the errors related to the code.	In white-box testing, there is the detection of hidden errors. It also helps to optimize the code.