Levels of Testing:

--> The testing done at various levels and by whom it is done is called Levels of Testing.
--> There are 4 levels of testing. If theses 4 levels of testing is completed only, we can say the application is ready for release.

1.Unit Testing
2.Integration Testing
3.System Testing
4.Acceptance Testing

1.Unit Testing:

--> Testing an individual module in an application
--> Done by Developers
--> Test based on White Box Testing Technique.

2.Integration Testing:

--> Combining or merging two modules
--> Done by Testers
--> Test based on Black Box Testing Techniques
--> Big Bang Approach - Combing all combination of units
--> Top-down Approach - Higher level combinations of units
--> Bottom-up Approach - Lower level combinations of units

3.System Testing:

--> Complete Application Testing
--> Done by Testers
--> Test based on Black Box Testing Technique
--> Types of System Testing:
        --> Functional Testing - To test the functionalities of the application
        --> Usability Testing - To test whether the application is user friendly and it is easily understandable.
        --> Performance Testing - To test whether the application is not getting crashed or down when there is load/stress
        --> Security Testing - To test whether the application is secure or not
--> If theses 4 levels of testing is completed only, we can say system testing is completed

4.Acceptance Testing:

--> Getting approval from client

--> Done by client side

--> Testing will be done at Development/Testing Environment

--> Satisfying client requirement.